



...241/184 (prev. 6646-114N3)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: Ronald A. KATZ . Serial No.: 09/313,120

Filed: May 17, 1999 For:

PROCESSING SYSTEM WITH

TELEPHONIC INTERFACE CALL

CALL SELECTIVITY

Group Art Unit: 2643

Examiner: S. Woo

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INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(c)

Commissioner for Patents ₩ashington, D.C. 20231 ⊨≛ Sir:

To comply with the Applicant's duty, under 37 CFR § 1.56, the following information is brought to the attention of the Examiner with respect to this application.

Applicant is submitting copies of the Forms PTO-1449 and PTO-892 that were considered by the Examiner before in parent Application Serial No. 08/480,185, now U.S. Patent No. 5,974,120.

The references cited in that case, are incorporated within the various Forms PTO-1449 that accompany this submission. The references are indicated with an asterisk beside them. The other documents are of record with respect to Applicant's other applications (e.g. U.S. Serial No. 08/306,456).

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CERTIFICATE OF MAILING UNDER 37 CFR 1.8

I hereby certify that this document (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as First Class mail in an envelope addressed to the Commissioner for Patents, Washington, D.C., 20231.

Date:/	nly	22,	200
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Reena Kuyper

Signature:

As indicated before in prior information disclosure statements submitted in Applicant's related applications (U.S. Serial No. 08/306,456 and 08/306,751), certain patents that issued to the Applicant possibly are either parents of, or otherwise related to the present application, and furthermore have or have had involvement with litigation. After consultation with the Solicitor's Office at the U.S. Patent and Trademark Office, the Applicant has brought information with respect to the involved litigation to the Examiner's attention in the manner suggested by the Solicitor's Office. In that regard, several attachments (that include comments) and exhibits (identical copies) have been provided as indicated below along with supplemental comments. Rather than to provide additional copies of these attachments and exhibits, Applicant directs the Examiner's attention to the copies provided before (see files for United States Application Serial Nos. 08/306,456 and 08/306,751). Of course, if the Examiner would like copies of everything for this application, she is requested to advise the undersigned.

1. LIST OF ATTACHMENTS

(Court Paper Lists and Attachments)

PU.

Note:

Summary lists of litigation papers filed and/or served in cases relating to certain patents are provided for each of the litigated cases, designated here as Suit I (First Data Resources (hereafter "FDR") v. West Interactive Corporation¹, Suit II (RAKTL and MCI v. AT&T Corp. (hereafter, "AT&T"), Universal Card Service Corp. (hereafter "UCS"), and AT&T American Transtech, Inc. (hereafter "Transtech")², and Suit III (RAKTL v. Microvoice)³ (see Attachments A, B, and C, respectively). Generally, many such litigation papers were designated under a protective order and consequently, although Applicant's litigation counsel had access to them, Applicant's prosecution counsel (Mr. B.G. Nilsson and

¹ See Attachment A, <u>Suit I</u> Summary of Papers Filed in Court or Served on Either Party in Suit (*First Data Resources v. West Interactive Corporation*).

² See Attachment B, <u>Suit II</u> Summary of Papers Filed in Court or Served on Either Party in Suit (RAKTL and MCI Telecommunications Corporation (hereafter "MCI" now MCI Network Services ("MWNS")) v. AT&T Corp. (hereafter "AT&T"), AT&T Universal Card Service Corp. (hereafter "UCS") and AT&T American Transtech, Inc. (hereafter "Transtech").

³ See Attachment C, Suit III Summary of Papers Filed in Court or Served on Either Party in Suit (RAKTL v. Microvoice).

Ms. Reena Kuyper) were not approved for access. Under the terms of the protective order in Suit II, litigation counsel could not actively participate in prosecution matters.

It also is noteworthy that many of the papers were directed to procedural matters that are substantively unrelated to the patents, as: scheduling, generic form allegations, evidentiary issues, and so on.

Suits I and III were resolved by defendants taking a license. During Suit I, a voluminous quantity of prior art, that is, some 500 items (including single or plural related documents grouped together), were identified by the defendant. However, during pre-trial procedures defendant distilled the applied art to 59 separate items (including single or plural related documents.). The distilled art (59 items) is listed on the enclosed first set of forms PTO-1449 (Set I) and copies of all the items listed therein are enclosed. The voluminous quantity of art identified during litigation, excluding the 59 items (Set I), is listed on the second set o forms PTO-1449 (Supplemental I). The art listed on the third set of forms PTO-1449 (Supplemental II) provided herewith, was uncovered before and during prosecution of related applications and patents owned by the same assignee. ⁵

In a continuing search performed as recently as September 28, 1994, the additional references, listed on the fourth set of forms PTO-1449 (in this case a single form, Supplemental III), were uncovered. Thus, all the known art has been listed on the four sets of Forms PTO-1449 (Set I, Supplemental I, II, and III) to provide a comprehensive record. Copies of all the cited documents (of others) that have been cited before are available in related applications (for example, U.S. Serial No. 08/306,751.) Other references that have also been considered before in Applicant's related cases are cited on the attached forms PTO-1449 (Supplemental IV). These references came to Applicant's attention as a result of reexamination of U.S. Patent No. 4,908,850 and during prosecution.

⁴ The patents to Katz (the Applicant) included in the 59 items, namely, U.S. Paten Nos. 4,792,968, 4,485,739 and 5,014,298 are parent patents, from which the present application ultimately claims priority. Also, Document No. 87/00375 corresponds to and claims priority from parent application U.S. Serial No. 06/753,299, which is parent to U.S. Patent No. 4,792,968.

⁵ With respect to EPC Publication 0 342 295, listed on Supplemental II, it should be noted that it corresponds to and claims priority from U.S. Patent No. 4,945,739.

Regarding Suit II, which proceeded to a stage far more advanced than attained by either of Suits I or III, numerous papers have addressed claim terms and proposed definitions for such claim terms. Indicating resolution of such terms, an attachment (*see* Attachment B1) was provided setting out claim terms as defined by the Court as a result of a Markman Hearing.⁶

Suit II was also resolved in December of last year by the defendants (AT&T and UCS) taking a license. The defendant Transtech has settled but Applicant does not have liberty to disclose the terms of the settlement agreement with Transtech. During the course of Suit II, as part of discovery, the defendants variously produced an enormous amount of documents (about 1 million or so as indicated by Applicant's litigation counsel) presumably of possible interest to various litigation issues such as infringement etc. These documents apparently include patents, non-patent publications, published articles, news releases, equipment specifications and so on. Most of the produced documents were marked "CONFIDENTIAL." The documents were produced under a Protective Order of the Court, specifying limited use of the documents and confidentiality for documents so designated. They were frequently mismarked. Accordingly, neither Applicant nor Applicant's prosecution counsel has had access to these documents. It is understood from Applicant's litigation counsel that perhaps only at the outset was the entire production quickly reviewed in a "flash cut" with a view to determine if any of the documents are pertinent from a prior art standpoint. A more comprehensive review of all the documents from that viewpoint was not undertaken as discovery relating to validity and infringement issues was deferred in part by the judge to follow claim interpretation to be resolved at a Markman Hearing.

As part of the discovery leading up to the Markman Hearing, the defendants filed their invalidity contentions that identified and purported to apply prior art to a select number of claims (20). Defendants also identified select prior art in their responses to Applicant's interrogatories. After the Markman hearing, litigation counsel analyzed the potential prior art provided by defendants and related materials of interest with respect to select claims in suit.

⁶ A Markman Hearing occurred in Suit II, Ronald A. Katz Technology Licensing, L.P. and MCI Telecommunications Corp., Civil Action No. 97-4453 (USDC, ED PA) and Ruling was issued (See Attachment B2 and Exhibit BI).

However, those materials were generally designated as 'CONFIDENTIAL" under the protective order and were not available to Applicant's prosecution counsel for review.

Applicant's litigation counsel have attempted to clarify what information cited by defendants during the litigation could be provided to Applicant's prosecution counsel for use in prosecution matters. Those discussions had resulted in an understanding by litigation counsel that patents and certain published information (as best ascertained by the litigation counsel) provided by the defendants may be used by Applicant in prosecution matters. Some of these documents remain unavailable to Applicant's prosecution counsel.

Applicant's prosecution counsel, have briefly reviewed the U.S. patents and have provided brief explanations below in charts A, A1, and B with preliminary distinctions (see PTO Forms 1449, Supplemental V (cited by either AT&T or UCS or both only, Volume II), Supplemental VA (cited only by Transtech) and Supplemental VI (accumulated by Applicant from other sources, Volume II)).

Applicant's prosecution counsel has also reviewed published documents provided by the defendants (when stacked about 5 feet in height and cited in PTO Forms 1449, see Supplemental VII) and have provided brief explanations here. The set of forms PTO-1449 (Supplemental V, VA, VI, and VII) have been considered previously by the Examiner in Applicant's other application (U.S. Serial No. 08/306,456). These forms are also attached hereto, so the Examiner can initial the references to indicate consideration.

It should be noted that this stack of published documents includes duplicates and references that are clearly not pertinent to the Katz portfolio, for example, references reporting the Mexican earthquake, basketball etc. Also, many of the documents address financial or business considerations or are simply cryptic news stories taken for example from LEXIS-NEXIS service. Generally, the documents fall into subject categories such as private branch exchange (PBX) switches, voicemail components, ANI services per se, DNIS services per se, 800 and 900 service per se, ISDN operations, telephone billing and routing techniques, voice processing, and telephone technology generally. In reviewing the stack of published documents, none were located which were found to be pertinent to the present application or related applications generally. Accordingly, Applicant has not provided copies of all the references. However, copies of a select few to represent the nature of the citations

were provided (see file for U.S. Serial No. 08/306,456, further discussed at page 72-74 here). In the event the Examiner would like copies of everything or other select items, the Examiner is respectfully requested to advise the undersigned.

Applicant's prosecution counsel have also reviewed other documents asserted by AT&T when adverse to the Applicant. These documents were released for review and forwarded to Applicant's prosecution counsel on January 11, 2001. The accompanying Forms PTO-1449 (designated as Supplemental VIII) provide a listing of documents (References B-M) that AT&T had possibly asserted as prior art when adverse to the Applicant. AT&T has now indicated these documents are non-confidential, thereby allowing Applicant's prosecution counsel to access them. On reviewing these documents, Applicant's prosecution counsel do not believe any of them are of much interest to the claims of this application. Nonetheless, CHART C (pages 74-75) lists all the documents and indicates short comments relating to each. A copy of each of these documents has been provided (see file for U.S. Serial No. 08/306,456) because they are representative of articles and publications available from Bell Labs. An additional document (copy attached) on AT&T's network communications that Applicant's prosecution counsel recently came across is also cited on another Form PTO-1449 (designated as Supplemental IX).

In another regard, with respect to the Suits, certain claim terms have been the subject of interrogatories and related responses along with other subjects as: claim support in specifications, priority dates, specification background comments, proposed language interpretations, document authorship, and other matters of fact.

Document requests have addressed: potentially infringing systems, factual aspects of the Parties and other subjects. In addition to scheduling matters, evidentiary questions and discovery, court papers also have addressed the Markman Hearing, which is treated below and in certain attachments.

Invalidity contentions (see Exhibits AI (by West), BII (by AT&T), and BIII (by UCS)) also were expressed during the pretrial phase of Suit I and Suit II. Although the defendant Transtech also expressed its invalidity contentions, it had denied Applicant permission to disclose them to the Patent Office until a Judge's ruling issued during the first week of January, 2001. At any rate, those contentions in Suit II (RAKTL and MCI v. AT&T

Corp., et al.), however, were based on a construction of the claims being advanced by defendants at the time. That proposed claim construction was largely not the one ultimately adopted by the Court in its Markman decision. Defendants were not required to update those contentions based on the Court's Markman ruling before Suit II was settled. Applicant and MCI do not agree with the rejected contentions of defendants, as set forth in their responsive contentions.

Further related to the Markman Hearing (see Suit II), several demonstrative exhibits were presented. Such demonstrative exhibits from the Plaintiff were provided as a teaching tool and showed claims and drawings from the patents along with background information. Defendants' demonstrative exhibits addressed: telephone systems, patent drawings, drawings from references showing elements and prosecution history comments.

The following attachments and exhibits including those identified above and additional ones summarize the substance of Suits I, II, and III that remotely may be of possible interest to patent prosecution.

RE SUIT NO. I (FDR v. West Interactive Corporation)

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Identification

Attachment A. (Suit No. I)

List No. I – Summary of Court Papers of Suit No. I⁷

Attachment A2.

Summary of Nilsson Deposition

Attachment A3.

Summary of Nilsson Declaration

Attachment A4.

Summary of Rudolph Declaration

Exhibit (see Vol. 1)

<u>Identification</u>

⁷ See Attachment A, Suit I Summary of Papers Filed in Court or Served on Either Party in Suit.

Exhibit Al

Attachment B8.

Contentions by West Interactive Corporation

RE SUIT NO. II (RAKTL and MCI v. AT&T)

	(NINTE UND MOTOR TOTAL)
Attachments (see Vol. 1)	Identification
Attachment B. (Suit No. II)	List No. II – Summary of Court Papers of Suit No. II ⁸
Attachment B1.	from Markman Conclusions of Law – Defined Claim Terms Note: An abstract of the claim terms defined by the court in the Markman Ruling.
Attachment B2.	from Markman Conclusions of Law (Court Ruling) - Expanded Table of Contents Note: The Court's Table of Contents has been expanded with italicized comments to provide an abstract of the Conclusions of Law treating defendants' contentions and related rulings by the Court.
**************************************	Two Letters from Litigation Counsel
17 Attachment B4A.	Report by Plaintiffs' Expert (Mr. Sanford Morganstein) Note: An abstract was provided.
Attachment B4B.	Rebuttal Report by Plaintiffs' Expert (Mr. Sanford Morganstein) Note: An abstract was provided.
Attachment B5.	Report by Defendants' Expert (Dr. Larky) – Deposition Note: An abstract was provided.
Attachment B6.	Report of Defendants' Expert - Dr. Peter K. Bohacek Note: An abstract of the report is printed.
Attachment B7.	Defendants' Redacted Pre-Markman Hearing Brief On Primary Issues Note: The Table of Contents has been expanded, abstracting the substance of the Brief in italics.

Plaintiffs' Markman Hearing Brief

Note: Table of Contents and a comment on the Brief.

⁸ See Attachment B, Suit II Summary of Papers Filed in Court or Served on Either Party in Suit.

Attachments

(see Vol. I)

Attachment B9.

Attachment B10.

Attachment B11.

Attachment B12.

Identification

Defendants' Redacted Pre-Markman Hearing Brief on Secondary

Issues

Note: The Brief has been abstracted to indicate concisely Defendants' arguments and the related

judicial determinations by the Court.

Transcript of Defendants' Expert - Dr. Larky

Note: An abstract was provided.

Transcript of Plaintiffs' Expert (Mr. Sanford Morganstein) - Deposition

Note: An abstract was provided.

Transcript of Mr. Katz - Depositions

Note: Locations in the transcripts are identified for testimony relating to individual patents.

Exhibits

Exhibit BI.

Exhibit BIII.

Exhibit BIV. (see Vol. II)

Exhibit BV (see Vol. 11)

Identification

Markman Conclusions of Law

Note: Full text of the Court's Ruling.

Contentions by AT&T

Contentions by UCS

Protective Order 9/29/97

U.S. Patent No. 4,401,856 (Curtin et al.)

RE SUIT NO. III (RAKTL v. Microvoice)

Attachments

Identification

(see Vol. II)

Attachment C. (Suit No. III)

List No. III - Summary of Court Papers of Suit No. III9

Attachment C1.

Letter from Litigation Counsel

FORMS PTO-1449

Forms PTO-1449

(see Vol. II)

Identification

Supplemental V. and VII.

Forms PTO-1449 listing art cited by Defendants (AT&T, Transtech,

and UCS)

Supplemental VA.

Forms PTO-1449 listing art cited by Defendants (Transtech)

Supplemental VI.

Forms PTO-1449 listing art accumulated by Applicant (through other

sources)

Suit III was settled in October, 1999, after only preliminary activity. Specifically, claims were selected for assertion and accused operations were identified. However, the pretrial procedures indicated a stage of substantially addressing the patents. Accordingly, none of the papers identified in Attachment C are being provided as pertinent. To that end, see letter from litigation counsel (see Attachment C1). Distinct from the attachments as identified above, some further comments are appropriate in relation to each of the suits as treated below.

⁹ See Attachment C, Suit III Summary of Papers Filed in Court or Served on Either Party in Suit.

2. COMMENTS ON THE VARIOUS SUITS

Suit No. I. First Data Resources Inc. (then owner of the patents) v. West Interactive Corporation.

In December of 1993, Suit I was resolved when the defendant took a license to the patents. During Suit I, the defendant cited a voluminous amount of art and, in particular, asserted some 50 references. Applicant has already brought all of those references to the Examiner's attention (in Applicant's U.S. Serial No. 08/306,456).

Certain documents listed in the Suit I summary were designated under a protective order or are otherwise not available to Applicant for review or comment. Nevertheless, the papers appear to be completely irrelevant to the issues of unenforceability, invalidity, and so on. The Suit I summary Attachment A) was provided with the belief that the Examiner will request a copy of any document designated that may appear to be of interest. In the Suit I summary, documents of possible interest designated by letters "L," "M," or "I") are segregated from others that are completely irrelevant. To declarations by plaintiff's expert, Mr. Rudolph, and Applicant's counsel, Mr. Nilsson, as well as a declaration of Applicant's deposition. See Attachments A2, A3, and A4. Also, Applicant's prosecution counsel has provided a copy of the defendants' invalidity contentions.

Suit No. II. RAKTL (the present owner of the patents and co-plaintiff) and MCI

Telecommunications Corporation (licensee and co-plaintiff) v. AT&T

As indicated above, certain of Applicant's patents were the subject of litigation between the parties identified above. Litigation counsel has interacted with the defendants in Suit II. In that regard, Applicant's prosecution counsel has not been privy to much of the litigation communication, as that which was designated under a protective order (Exhibit BIV). See letters (Attachment B3) from Applicant's litigation counsel. Prosecution counsel have studied select communications between the parties in suit, not designated confidential, to determine if they appear to address issues

of unenforceability, invalidity, etc. Prosecution counsel have created a Suit II Summary¹⁰ listing papers filed in court and/or served on either party involved in the suit. The Suit II Summary may exclude certain correspondence between litigation counsel for plaintiffs and a Special Master assigned to the case. That correspondence was not believed to be of interest to the Examiner as it relates to the scope of discovery. In the event the Examiner would like to see copies of that correspondence, please advise.

Rulings (Court's Conclusions of Law Regarding Patent Claim Construction (hereafter CCL)), in a Markman hearing relating to Suit II should be noted. Provided before (with respect to United States Serial No. 08/306,751 and Serial No. 08/306,456) is a copy of the entire court ruling (see Exhibit BI) followed by an expanded Table of Contents (see Attachment B2). That is, for the Examiner's convenience, Applicant's prosecution counsel have expanded the Court's Table of Contents to indicate and summarize the defendants' arguments and the Court's ruling on each

The art that defendants cited or asserted (in particular, see attached copies of invalidity is contentions, by AT&T and UCS (Exhibits BII, and BIII) is indicated on the attached Forms PTO-1449 (Supplemental V). Other art cited only by the defendant Transtech is indicated on the attached Forms PTO-1449 (Supplemental VA). Other art that may have come to light from other sources, is such as cited by Examiners in related applications also is cited on the attached Forms PTO-1449 (Supplemental VI). In addition, Applicant is providing copies of invalidity contentions by various arguments (AT&T and UCS only) in the event that the Examiner should wish to consider the arguments urged by the defendants (See Attachments BII (contentions by AT&T), and BIII (contentions by UCS)). Applicant has already provided copies of many of the foreign patents and articles in Supplemental V and VI in related cases (for example, Serial No. 08/306,751), and is not providing copies herewith so as to not provide excessively burdensome papers. Copies of the documents cited in Supplemental VA and VII are not being provided at this point because they are largely not of interest. The undersigned assumes that copies of the patents are easily available to the Examiner on-line. If the Examiner would like copies of the patents, please advise the undersigned. Also, the Examiner should note that not all the references cited by the defendants constitute prior art.

¹⁰ See Attachment B, Suit II Summary of Papers Filed in Court or Served on Either Party in Suit.

Filing and issue dates for the patents and publication dates of the articles and foreign patents are provided to assist the Examiner with making an independent determination of which references (if any) constitute prior art.

Although numerous issues regarding the construction of the claims arose during the litigation, those, the parties believed were most important with respect to a selected set of 20 claims were the subject of the Markman hearing. Consequently, the Markman ruling is a concise summary of plaintiffs' and defendants' significant arguments that may have also been urged in the numerous briefs and other papers filed during the entire period of the litigation. Nonetheless, Applicant's prosecution counsel also has provided abstracts prepared on the report filed by plaintiffs' expert (Mr. Sanford Morganstein, Attachment B4A) and defendants' experts (Dr. Larky, Attachment B5, and Dr. Bohacek, Attachment B6) as well as rebuttal by plaintiffs' expert (Attachment B4B).

Also, prosecution counsel has provided expanded tables of contents for various briefs (See Attachments B2 and B7) and comments and abstracts on other briefs (See Attachments B8 and B9). The comments are italicized. Also, abstracts of various deposition transcripts are provided. (See Attachments B10 (Larky), B11 (Morganstein), B12 (Katz)). The Examiner is requested to indicate any particular document or area of interest in depth. If available, Applicant's prosecution counsel will provide copies.

As indicated above, Applicant's prosecution counsel received a substantial number of U.S. Patents variously identified by Defendants (AT&T and UCS only) in Suit II to Applicant's litigation counsel, for example, in response to document demands. These documents are identified in Supplemental V.

As a further matter, it is Applicant's understanding that any positions asserted during litigation that may be construed by others as unclear in view of positions urged during prosecution should be clarified. In the course of Suit II, the term "DNIS" was treated, as in its functions related to the provision of called number identification data, for example, as recited in the parent patent 5,561,707, claim 103. The various comments and contentions asserted with respect to the term "DNIS" were resolved by a ruling of the Court. Specifically, some comments are deemed appropriate with regard to the CCL (Court's Conclusions of Law).

Preliminarily, consider some quotations and comments relating to DNIS that are taken from the CCL. First, an issue arose as to whether or not signals providing the DNIS capability are restricted to a specific number of digits. In that regard, the Court stated:

"However, the mere reference to 'called number' does not restrict 'called number identification data' to a certain number of digits, nor is there reason to restrict the terms 'DNIS' and 'called number identification data' to the examples provided by Katz in the specifications." (CCL, pp. 56)

A somewhat related contention by defendants urged that the "DNIS" capability specified in the Katz claims must indicate a full or complete dialed number. In that regard, after quoting from the '707 Katz patent, the Court stated:

"These passages confirm that DNIS or called number identification data must only be a signal that identifies the called number and need not be only the seven or ten digit number." (CCL, pp. 57)

In another portion of its opinion, the Court considered Applicant's discussion of patents discussing direct inward dialing, or DID, during prosecution of certain parent patents thereto. During prosecution, for example, of U.S. patent ['707], Applicant states, referring to the DID service, that "[T]he operation was quite different from using DNIS signals to select formats". (Amendment 8/31/95, '707 Patent filewrapper). The Court specifically addressed Applicant's discussion of DID in connection with Matthews, '012, Matthews, '906, Vij, '682 in prosecution of other related patents, the Court stated:

"These statements indicate that Katz distinguished his inventions from other patents on the basis of the comparative functions of the systems; the systems in the other patents use signals to route telephone calls, not select a format from a group of formats or to store data associated with those signals. However, Katz never informed the PTO that the same numbers that other systems used to route calls could not be used to identify the called number and select a format. In short, it is not clear from Katz' statements, contrary, to the defendants' contention, that 'internal routing numbers' to the extent they can identify the called number, could not be included in the meaning of called number identification data or DNIS, as used in the Katz patents.

Based on the foregoing, the Court concludes that the terms 'DNIS' and 'called number identification data' are synonymous and mean: a signal or data that identifies the number called."

To focus on the "comparative functions" as mentioned by the Court, some further clarification of the DNIS capability or service for the record is deemed appropriate. In that regard, the comments below also are pertinent to the testimony of Applicant's Expert, Sanford J. Morganstein. The comparative functions of the DNIS capability (versus DID service), which offer distinct benefits in Applicant's combinations, include: the use of non-specialized trunks (as in each trunk does not have to contain lines corresponding to specific DID numbers), the flexibility of number designation, the availability of flexible line allocation and the operation of supplying DNIS by addressing the carrier's DNIS database (for example, one or more memory sources located at one or more interexchange carrier locations), and the use made of signals from the network. Thus, in accordance with Applicant's prior position during prosecution, the recitation of DNIS capability in The Katz patents is deemed distinct from DID service in the contexts as claimed because of the Treasons set forth above. Most obviously, DID service uses signals received over trunks devoted to specific lines within the network (a block of DID numbers) in a manner distinct from the use of DNIS signals in the Katz inventions as claimed (for example, to select a format). ŢŲ Also, relating to the DNIS capability and DID service, some art was identified in Suit II, đ which merits comment. Specifically, for example, attention is directed to U.S. Patent 4,401,856, Curtin et al., "Control System for Handling Direct Inward Dialing Telephone Calls" (copy attached here for convenience, Exhibit BV). Although the Curtin et al. patent, relating to DID, is not a significant addition to the art of record, it is of interest to and merits mention with regard to the above considerations. A pertinent passage from the Curtin et al. patent is as follows:

"Another possible use of the control system for handling DID lines of the present invention is to assist individuals in identifying incoming callers. Individuals can rent a block of DID numbers from the telephone company (for example, 10 numbers but still only one access line) and then use the control system so as to enable the individual user to be able to identify the incoming caller. For example, people in business have special groups of clients to whom they desire to provide special attention. By giving any particular client a particular DID number which is unpublished, when the control system identifies the particular DID number being called, the telephone user then knows which client is calling and the individual user can act accordingly. While in accordance with the preferred embodiment of the present invention, as disclosed herein, it is indicated that the last



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three digits of the called DID number is displayed, it is possible that the control system could display a different number of digits or the actual name of the particular client or subscriber associated with the particular DID number." (claim 3, line 41+)

Suit No. III. RAKTL (the present owner of the patents and plaintiff) v. Microvoice Inc.

Certain patents were the subject of litigation between the parties identified above, resolved by a consent judgment and license agreement entered in October, 1999. Prosecution counsel for Applicant has provided a Suit III Summary (see Attachment C) of all documents filed in Court or served to either party in suit. Again, any prior art identified by defendant is included in the attached Forms PTO-1449.

DISCUSSION OF DOCUMENTS LISTED IN SUPPLEMENTAL V, VA, VI, & VII

CHART A (SUPPLEMENTAL V and VI)

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
3,787,632 Supplemental V)	Male et al.	01/22/74/ 06/28/71	An automatic number identification system for identifying the calling station of a branch telephone exchange and transferring the information via the normal talking path connection through the central office is described.
3,940,569 (Supplemental V)	Schonbrun et al.	02/24/76/ 08/08/73	Toll call restriction is based on a binary counting of the dial pulses of the called number.
3,987,252 (Supplemental V)	Vicari	10/19/76/ 06/27/75	Computer controlled concentrator to reduce the number of trunk lines for serving subscribers. Operators can answer any incoming call (any subscriber line) to take a message or give a message. Calls are diverted to "free" operator position. The patent describes an early form of "call center" with call distributions.
4,068,099 (Supplemental V)	Mikkola et al.	01/10/78/ 05/21/76	A system for multiplexing (time division) calls for special service (e.g. news, weather, etc. by recorded message). Callers are multiplexed for receiving service information.

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U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
4,087,638 (Supplemental V)	Hayes ét al.	05/02/78/ 10/01/76	A DTMF generator uses a dual oscillator (digital waveform synthesizer) to produce two output sine waves and is selectively timed to provide DTMF signals along with "ANI" signals (4 or 8 digits) that are inserted at the outset of operation.
4,090,034 (Supplemental V)	Moylan	05/16/78/ 06/09/77	PBX billing system based on ANI, as for hotel use to bill guests.
4,160,129 (Supplemental V)	Peyser	07/03/79/ 05/03/77	Long distance routing control system with priority selection of lines and a connection through the selected lines that does not pass through the central control that selects the lines. Satellite switching units are used. Data for billing is recorded.
4,192,972 (Supplemental V)	Bertoglio et al.	03/11/80/ 11/28/78	A pay-telephone station that handles local and long-distance calls includes a microcomputer which, at the end of the conversation or under certain circumstances, selectively collects predeposited payment items of different denominations calculated according to the debt incurred and to the denominations available to optimize the refunding of any excess to a user. The microcomputer also determines, upon the start of a call, whether the initial deposit suffices for at least the basic charge on the type of connection (local or trunk call) sought to be set up and, if it does not, invites the user to make an additional deposit before aborting the call. The remaining credit balance is continuously signaled to the caller on a display unit and, even before actual collection, is diminished according to the applicable rate in response to each
4,221,933 (Supplemental V)	Cornell et al.	09/09/80/ 12/21/78	metering pulse arriving from the exchange. Centralized voice message system uses digital memory to store messages. ESS trunk circuits are incorporated with interface units to store and retrieve, using ANI to identify callers (col. 4, In. 1).
4,255,619 (Supplemental V)	Saito	03/10/81/ 09/05/79	Telephonic reservations system uses a data transmitter 41 coupled to a telephone to interface the reservations system. See col. 9 for script. As related to Katz systems, the Saito system appears to be no more than a basic reservations system using a special data transmitter with a keypad.

U.S. Patent No.	Inventor	Issue Date/	Comments
		Filing Date	
4,360,875	Behnke	11/23/82/	Special purpose terminals (keyboards)
(Supplemental V)		02/23/81	interface a central computer to arrange rides
			on vehicles (private cars) which have drivers
			planning a trip.
4,401,856	Curtin	08/30/83/	Operating with DID lines, the last digits of
(Supplemental V)		05/13/81	the called number are decoded and
			displayed (col. 10, ln. 12). Also, display
			could be of a particular client as disclosed
			(col. 3, ln. 59).
4,428,296	Scheuchzer et al.	01/31/84/	A railroad track relaying train.
(Supplemental V)		08/04/81	
4,445,001	Bertoglio	04/24/84/	Subscribers are equipped with structure to
(Supplemental V)		03/02/82	interrogate an identification unit to reveal a
			calling number, which is provided as a
	· ·	<u> </u>	signal to activate a display at the equipped
			subscriber location.
4,517,412	Newkirk et al.	05/14/85/	Pay phones are equipped with major credit
Supplemental V)		11/23/83	card reader units to read cards, communicate
Dest L E	,		through a satellite station to a central
		, '	processor for verification and perform
			network management plus credit card
\$4 F10 024	Mondardini	05/21/85/	billing. A public telephone method and apparatus is
4,518,824	Monuarumi	06/07/82	described wherein the user's personal
(Supplemental V)		00/07/62	telephone number and a personal dialing
##F			code are used to effect debiting charges.
4,549,291	Renoulin et al.	10/22/85/	A hybrid local communication network,
(Supplemental V)	Renouniii et ai.	09/09/83	operating both in circuit and packet modes.
±4,585,903	Schiller et al.	04/29/86/	A cordless telephone.
(Supplemental V)	Schiller et al.	06/25/84	A cordinass terepriories
4,591,665	Foster et al.	05/27/86/	To trace absence calls, a calling number is
(Supplemental V)	7 00101 01 411	07/12/83	stored in a memory associated with the
			called number and is displayed at the called
		,	number on request by entry of a post call
			code.
4,600,809	Tatsumi et al.	07/15/86/	A wireless system with DTMF decoding to
(Supplemental V)		05/24/84	take messages for an unattended telephone
	·		and indicate the calling number.
4,611,096	Asmuth et al.	09/09/86/	Local telephone office capability to either
(Supplemental V)		12/01/83	"hand off" or obtain "assist" in giving service
			, , ,
			"Announcements and Digit Collection" (col.
			7); also, "Assist and Handoff" (col. 9).

U.S. Patent No.	Inventor	Issue Date/	Comments
		Filing Date	
4,625,081 (Supplemental V)	Lotito et al.	11/25/86/ 11/30/82	Messages are stored in baskets that are associated with individual telephone lines
		,	and received with PIN entry and little operator involvement. Selective
	•		"answering" per number of rings, time of day, etc. (col. 150, ln. 65). Interface
,			operation (col. 151). Re service options, see col. 158, In. 1. Re message delivery, see col. 169, In. 66.
4,640,991	Matthews et al	02/03/87/	(also see Matthews '486)
(Supplemental V)	Matthews et al	09/29/82	Voice mail system with: controlled limited
(Supplemental V)		03/23/02	access, digital or public network link, etc.
			DID (col. 69, In. 25, see Matthews '486).
•			Receive only (RO) message address is used.
4,672,660	Curtin	06/09/87/	A method and system for identifying who is
(Supplemental V)	Curun	06/07/85	placing a call to a telephone prior to
(Supplemental V)		00/0//03	answering. Also, discloses DID.
4,685,127	Miller et al.	08/04/87/	Uses ANI to identify callers on long distance
(Supplemental V)	Transcret an	10/01/85	calls and thereby select the chosen long
Ú		10.0.705	distance carrier for the call.
4,747,124	Ladd	05/24/88/	A computer unit with speech capability is
(Supplemental V)		05/06/85	coupled in front of a PBX to expand its
**			capability. DTMF signals from caller are
			decoded to control PBX.
4,759,056	Akiyama	07/19/88/	A communication system offering specific
(Supplemental V)		11/09/84	services to specific persons has a portable
			memory device with a record of personal
	,		information such as the bearer's
4	ĺ		identification number, class of service,
님.			personal date etc. In making a call, the
			bearer of the memory device puts it on a
**************************************	·		communication terminal device and the
=			terminal device reads out the personal
			information, which is transferred to a data
		ļ	processor such as a central processor in
			exchange so that a service specific to the
	 	00/02/22/	calling person is rendered.
4,761,808	Howard	08/02/88/	As for controlling access to long distance
(Supplemental V)		03/18/87	calls, a caller uses an I.D. number
			(alphabetic) including a time code and an
		, '	address code. The time code is changed in an autodialer to limit access.
4 701 (((Calabiatal	12/12/00/	A method and apparatus for connecting on
4,791,666	Cobb et al.	12/13/88/ 06/19/87	electromechanical telephone central office
(Supplemental V)		00/19/0/	having a step-by-step or cross bar type
		,	switching equipment to a remotely located
			automatic interrupt message system.
	<u></u>		automatic interrupt message system.

U.S. Patent No.	Inventor	/ Issue Date/	Comments
<u> </u>		Filing Date	
4,797,818 (Supplemental V)	Cotter	01/10/89/ 03/26/87	A pizza chain ties all parlors to a central computer, using modems at the central and printers at the parlors. Orders are taken at the central and on the basis of area code, zip code, exchange number or street address, a parlor is selected. The order is printed. Disclosed embodiment uses home address, per "Informix" database. Calls go to operator at CRT, however, voice recognition etc. is mentioned (col. 4, ln. 52). Also "sequential transaction numbers" are assigned for each store (col. 4, ln. 60).
4,805,207 (Supplemental V)	McNutt et al.	02/14/89/09/09/85	This patent relates to a system that takes and retrieves telephone messages. Their system allows one or more operators to receive calls to a called party who is not able to answer the phone. Information specific to the called party is presented to the operator in response to conventional data from a PBX indicating the called party, and optionally the calling party in some cases. The operator may take a message for the called party by typing the message on a terminal, which is stored. Messages that are stored may be retrieved through a remote station.
4,878,240 (Supplemental V)	Lin et al.	10/31/89/ 01/25/88	Enhanced telephone services are provided through a multi-service telephone switching system that contains a programmable adjunct connected to a telephone switching system. Different service scripts can be invoked to provide corresponding different enhanced services to the subscriber depending upon the specific condition for which the call was routed to the adjunct and/or a specific event occurring during the call.
4,893,325 (Supplemental V)	Pankonen et al.	01/09/90/ 09/23/88	A telephone call distribution system for handling a special type call, the call containing at least automatic number identification (ANI) data.

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
4,896,346	Belfield et al.	01/23/90/	A password controlled switching system and
(Supplemental V)		11/21/88	method of operation for enrolling and
			storing passwords identifying lines and
			trunks of the switching system that are
			denied access by other lines. The system is
			operable upon a watch of a calling party
			command with an enrolled and stored
			password for selectively interconnecting the
			calling party via a line with ones of the
			restricted lines and trunks.
4,899,373	Lee et al.	02/06/90/	This patent relates to a method and
(Supplemental V)		11/28/86	apparatus for providing personalized
			telephone subscriber features at remote
	, '		locations. A nationally accessible data base
	,		system stores features data in association
			with personal identification numbers.
4,908,852	Hird et al.	03/13/90/	A telephone system and method of operation
(Supplemental V)	, '	01/23/89	which use a microprocessor control system
13	Ì	,	(10), a speech generator (34) and speech
			memory (46) to automatically place calls
ļ ā		<u> </u>	without the need of a live operator.
4,922,519	Daudelin .	05/01/90/	The class of an operator assistance call is
(Supplemental V)	,	09/30/88	identified in order to reduce the operator
		,	work time for servicing such a call. A
	,		customer dials 0 or dials 0 plus a directory
21. Pri 400.		,	number and is connected to a program
			controlled operator assistance system or
	,	1	switch. The switch initially connects the
	•		calling customer to a voice processing unit
			and prompts the customer to speak a
		1	command or key a command code. The
		* 1	command or command code is recognized
₩			and used to direct the flow of the control
			program to selectively defer a connection to
			an operator position. For example, for
			person-to-person calls, the operator position
			is only connected after the called customer
			terminal answers.

U.S. Patent No.	Inventor	Issue Date/	Comments
Olbi Tutent Ties		Filing Date	
4,933,965	Hird	06/12/90/	A telephone system and method of operation
(Supplemental V)		01/23/89	are described which use a microprocessor
(Supplementar v)	,	01,25,05	control system, a speech generator and
			speech memory to interact with a calling
			party placing a long distance phone call.
	,		The telephone determines the validity of the
•	1		billing account number and, if the billing
•			account number is valid, a communication
			path is established through a telephone line
		•	interface. Valid billing account numbers are
			interface. Valid bining account numbers are
			stored in the telephone for a predetermined
			period of time. The stored numbers are
			polled prior to the validation process to
			determine if an entered number has already
~ \	•		been validated. In this manner, a calling
•			party making multiple calls with the same
	1		billing account number need only wait for
F7:			his account number to be verified once.
4 000 334	Schakowsky et al.	01/29/91/	A system for capturing telephonic mass
4,989,234	JCHakowsky et al.	04/11/89	responses that automatically receives calls of
(Supplemental V)		0-7/1/05	recipients crossing their telephone sets to
. 3			respond to the broadcast promotion,
			electronically capturing the subscriber
To at			telephone numbers of the telephone sets
			through which these calls are made, and
			automatically confirming to all callers while
•			automatically comming to an earlier white
Fig.			on line during these calls that these calls
			have been received.
<u></u> , 5,036,535	Gechter et al.	07/30/91/	An automatic call distributing system for
إ(Supplemental V		11/27/89	automatically distributing telephone calls
72' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			placed over a network to one of a plurality
			of agent stations connected to the network.
5,199,062	Von Meister et al.	03/30/93/	A telephone communication system with a
(Supplemental V)		11/08/91	telephone switch having a plurality of
(Supplemental 1)			incoming and outgoing lines for switching
			calls, an audio response unit, and a central
			processing unit for executing a stored
		.	program sequence based upon the audio
	,		communication received by the voice
			response unit to control both the voice
	,		response unit and the telephone switch.
			(later filed patent)
		06/22/02/	A long distance telephone switching system
5,222,120	McLeod et al.	06/22/93/	that provides various enhanced subscriber
(Supplemental V)		04/23/90	
			services, such as on audio news and
			information service etc.
		· ·	(later filed patent)
5,299,260	Shaio	03/29/94/	A telephone call handling system. (later filed
(Supplemental V)	1	07/29/93	patent - not prior art)

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
5,303,298 (Supplemental V)	Morganstein	04/12/94/ 09/14/92	An automated attendant call processor. (later filed patent)
5,303,299 (Supplemental V)	Hunt et al.	04/12/94/ 06/22/92	A method for continuous recognition of alphanumeric strings spoken over a telephone network. (later filed patent)
5,354,069 (Supplemental V)	Guttman et al.	10/11/94/ 01/21/92	A lottery simulation system. (later filed patent)
5,418,844 (Supplemental V)	Morrisey et al.	05/23/95/ 04/1 <i>7</i> /92	An automatic access to information service provider. (later filed patent)

Foreign Patents:

Patent No.	Country	Public. Date	Comments
0 217 308 B1	EPC	4/1987	An ANI facility is used to order pay-per-view
(Supplemental V)			programs.
_0 249 795 B1	EPC	12/1987	(Specification in German)
(Supplemental V)		1	Method for PBX use, with computer
			controlling access with regard to time and
1			per a code as assigned to callers. Does not
2			appear to be pertinent.
2 575 016	France	07/1986	(Specification in French)
(Supplemental V)		,	A telephone communication system
		, and the second	involving deposit of money (see Fig. 1).
WO 82/02132	PCT	06/1982	In a PBX installation, individual stations can
(Supplemental V)	' ' '		transfer to another station assisted by a bank
13			of telephone answering machines.

Other Documents:

Title of Article/Publication	Date	Comment
Dial Info Articles (various articles with various dates) (R0016101-R0016188) (Supplemental V)	mid-1980's	Some hundred pages of cryptic "stories" reporting telephonic related events, apparently from internet searching and dated in the mid-eighties.
Svigals, J., "Security Method For Remote Telephone Banking," IBM Technical Disclosure Bulletin, Vol. 23, No. 12, May 1981, pp. 5306-5307 (pb424) (Supplemental V)	May 1981	An encryption technique is disclosed for secure numerical entries by telephone.
AT&T Conversant Voice Response Systems Historical Overview, January 1988 (FD 023585-FD023596) (Supplemental V)	January 1988	Describes the "Conversant" system and various general uses, e.g. reservations and ordering.
"All About Automated Attendant Systems," Datapro Research Corporation, March 1987 (SM 1000682-SM 1000691) (Supplemental V)	March 1987	An early use of DID with rotary operation to take an automated response.

Title of Article/Publication	Date	Comment
"New Product - Dytel's Automated	March-April	Dytel's unit interfaces received calls to a PBX
Switchboard Attendant," reprinted from	1984	Uses DID line allocation.
Business Communications Review, March-		
April 1984, pp. 39-41 (SM10006976-		,
SM1000699)		
(Supplemental V)		
Arbogast, James G. et al., "Home Diabetes	1984	Telephonic access to a database as to
Monitoring Through Touch-Tone		monitor blood sugars. Does not appear to
Computer Data Entry and Voice		be pertinent.
Synthesizer Response," Annual		
Symposium on Computer Applications in		
Medical Care 8th Care Proceedings - Eighth		
Annual Symposium on Computer	ļ	
Applications in Medical Care, 1984 (MMI		
020731)		
(Supplemental V)		
Perdue, Robert J., et al., "AT&T Voice	September/	"Conversant" is described in voice response
Processing System Architectures," AT&T	October 1990	applications as for voice mail use.
Technical Journal, September/October		
990, pp. 52-60 (MMI 024142-MMI		
<u>L</u> D24151)		,
-«Supplemental V)		T. 100:11 (D)
Sable, E.G., et al., "AT&T Network	March 15, 1987	The 1984 introduction of Direct Services
Services Architecture Capabilities,	·	Dialing Capabilities (DSDC) Architecture to
Administration and Performance," AT&T		accommodate 800 service and caller
Technical Papers, International Switching		interface operations. At best, offers historical
Symposium-ISS '87, AT&T Network		background.
Systems, March 15, 1987 Supplemental V)	0	
The Stored Program Controlled Network	September -	A number of articles from the Journal were
The Bell System Technical Journal,	1982	provided as follows.
September 1982	1302	provided as follows:
Supplemental V)		(1) Prologue, pp. 1575
Tabble memar */	,	(1) 11010gae, pp. 1373
		Stored Programmed Controlled (SPC)
		network structure accommodates computer
		interface with callers. Only of historical
		significance.
		(2) Overview, pp. 1579
	,	
·		In accordance with Stored Programmed
,		Controlled network operation, considerable
		flexibility is described in signaling and
		network intelligence. Apart from historical
,		significance, not pertinent.
,		(2) C : 11 (1 P) 1700
, ,		(3) Generic Network Plan, pp. 1589
		A model for a stored protrallad
	<u>'</u>	A model for a stored program controlled

	Title of Article/Publication	Date	Comment
		i	network accommodates network capabilities with caller control. No significance, other than historical, is apparent.
-			(4) Routing of Direct-Signaling Messages, pp. 1599
			A form of "direct signaling" enhances stored program control operations with improved routing and flow control procedures. Only historical significance is perceived.
	· .		(5) Calling Card Service-Overall Description, pp. 1655
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			To accommodate credit card, collect and bill-to-third-number service, a system is described accommodating DTMF input from callers.
The different distribution			(6) Calling Card Service-TSPS Hardware, pp. 1675
المائي إنتها يبيئ المائية المائ إذا إلى إنتها يباس المائية الم		,	The Traffic Service Position System (TSPS) accommodates caller-computer interface with voice cues to callers and DTMF signaling from callers. At best, appears to have historical significance.
			(7) Calling Card Service, pp. 1715
Harry Graff Theres		1	New telephone systems accommodate enhanced computer telephonic interface as for credit card use, billing and so on. At best, of historical interest.
		((8) 800 Service Using SPC Network Capability, pp. 1737
,		, ∫ i	expanded 800 service accommodates ncreased use, improved routing and call processing. Again, of historical interest.
			9) 800 Service Using SPC Network Capability-Network Implementation;pp. 745
	,	e	xpanded 800 service accommodates ffective network capability, thereby ffording improved caller services.

Title of Article/Publication	Date	Comment
Title of Afticle/Fublication	Dutt	
		(10) Data Base Administration System- Overall Description, pp. 1759
		Stored Program Controlled (SPC) network operations afford improved data capabilities in the realm of customer interfaces. Again, of historical interest.
		(11) Data Base Administration System- Architecture, pp. 1779
		An improved data base administration system accommodates considerable improvement in computer-telephone interface. Of historical interest only.
		(12) Acronyms and Abbreviations, pp. 1799
		A glossary of acronyms and abbreviations is set forth; however, with very little in the way of definition. Accordingly, no pertinence is noted.
The World's Telephones, a Statistical Compilation as of January 1980, AT&T Long Lines, 1981 (Supplemental V)	1981 `	Statistical information on the historical use of telephones.
Engineering and Operations in the Bell System, AT&T Bell Laboratories, 1983 (Supplemental V)	1983	The table of contents for the book involving some 800 pages, was apparently provided with no specific indications. Apparently, the book describes the history, substance, and operations of the Bell System. No real pertinence found.
Joel, A.E., "A History of Engineering and Science in the Bell System, Switching Technology (1925-1975)," Bell Telephone Laboratories, 1982 (Supplemental V)	1982	Only the contents of a book (some 600 pages) was identified. Based on the contents, the book describes certain switching and routing operations of the system along with historical considerations. No real pertinence was identified by defendants nor is seen by prosecution counsel.
"ISDN - Proceedings of the conference held in San Francisco, November 1986," OnLine, New York: London (Supplemental V)	November 1986	Southern Bells ISDN system accommodates a variety of services as automatic call back, call return, call block, call tracing and so on, none of which appear to be pertinent.
Raack, G.A., et al., "Customer Control of Network Services," IEEE Communications Magazine, October 1984 (A21717089) also ISS 84, Florence Italy, May 1984 (Supplemental V)	May 1984	Telephone company customers are enabled a number of services by stored program operations under their control.

Title of Article/Publication	<u>Date</u>	Comment
Soderberg, J.H., "Machines at your Fingertips," Bell Laboratories Record, July 1969 (A21717175) (Supplemental V)	July 1969	Early forms of CIT operations are described involving voice cues and DTMF signaling.
Gawrys, G.W. et al., "A New Protocol for Call Handling Functions for the SPC Network," Globecrom '82 Conference Record, November/December 1982 (Supplemental V)	November/ December 1982	Direct Services Dialing (DSD) supports expanded services. However, does not appear to be relevant to the claims.
Buss, C.M., "Tuning the Human/Machine Interface for AT&T Advanced 800 Service," IEEE, July 1985 (Supplemental V)	July 1985	Human characteristics in relation to CTI are considered as with regard to cues and signaling.
Asmuth, R.L., et al., "Transaction Capabilities for Network Services," Globecom '85 IEEE Global Telecommunications Conference, New Orleans, December 1985 Supplemental V)	December 1985	Various capabilities of telephone company operations are indicated with potential operations.
Mahood, Gerald K., "Human Factors in OUCH-TONE Data Systems," Bell Laboratories Record, December 1971 (A21717170)	December 1971	A study of data entry. No real pertinence located.
4 ESS System Evolution," Bell System Fechnical Journal, August 1981 (Supplemental V)	August 1981	Background and evolution of the "4 ESS System." Other related article cited during prosecution of this application and related patents.

From Prosecution:

Foreign Patents:

Patent No.	Country	Public. Date	Comment
2 252 270 B	U.K.	08/1992	('91)
(Supplemental VI)			A scratch-off telephone card has a number that is verified by a computer to establish a value for consumption by use.

Other Documents:

Title of Article/Publication	<u>Date</u>	Comment
Friedes, A., et al., "ISDN opportunities for	June 22-25,	ISDN capabilities as enabling 800 routing
large business - 800 service customers,"	1986	and increased customer control are
IEEE International Conference on		described which use two "networks," one for
Communications '86, June 22-25, 1986,		call transport and one for signaling. ANI is
Vol. 1, pp. 28-32		discussed. D-channel information sharing is

Title of Article/Publication	Date	Comment
(Supplemental VI)		discussed, as to route calls, collect data on the waiting queue size, screen hackers with ANNIE, select data transmission paths, identify and selectively treat callers, based on called number, redirect calls.
Allyn, Mark R. et al., "Planning for people: Human factors in the design of a new service," Bell Laboratories Record, May 1980, pp. 155-161 (Supplemental VI)	May 1980	A test automated credit card service is described which tested various protocols from the perspective of human factors, e.g. announcements, custom response time, errors, etc.
Hanson, Bruce L., et al., "No. 1A VSS New custom calling services," Bell Laboratories Record, June 1980, pp. 174-180 (Supplemental VI)	June 1980	Call routing in an answering system with various tests and directions.

CHART A1 (Supplemental VA)

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
3,553,378 Supplemental VA)	Solomon, et al.	01/1971	Data bank access by telephone wherein, on connection, caller is given a dial tone to cue for dialing identity of desired information. Proper dial pulses fetch desired data, then connection is opened.
3,829,628 3(Supplemental VA)	Tripsas	08/1974	A system for testing the ANI, as it is used for billing purposes, to indicate failures for a test person.
المالية يالية Supplemental VA)	Riley	01/1986	associated with the calling link.
4,581,486 (Supplemental VA)	Matthews, et al.	04/1986	Voice message system for a PBX also affording limited access to "non-users" under control of a user. A group of select message addresses can be designated to receive a message collectively. Group members may reply which replies go to all the group members.
4,750,199 (Supplemental VA)	Norwich	06/1988	From a cluster of telephone instruments (as a group of a PBX) when a frequently-dialed number is called (as to a credit service) before termination, other instruments in the group are polled to determine if they want the connection (saves connection charge).

U.S. Patent No.	Inventor	Issue Date/	Comments
		Filing Date	
4,761,807	Matthews, et al.	08/1988	Voice mail system interconnects multiple
(Supplemental VA)		'	PBXs of subscribers with controls for "on
			net" or "off net" use by subscribers. Users
*			can leave messages or check for messages
,			with password. Users are cued by recorded
	,		messages. User voice characteristic features
		,	to qualify along with ID codes.
4,782,519	Patel, et al.	11/1988	Central office system uses ANI to ID callers,
(Supplemental VA)	rater, et an		then if call requires extended service (as
(Supplemental V/V)			requiring equal access) the fetched data is
			used to route the call.
0- 1-0	D/ 1// 1 -1	11/1988	Voice message system accommodates DTMF
4,785,473	Pfeiffer, et al.	11/1900	commands. Messages are stored in portions
(Supplemental VA)			or segments for greater flexibility.
		01/1000	System uses ANI to keep a record of
4,799,255 ·	Billinger, et al.	01/1989	unauthorized communication attempts and
(Supplemental VA)			unauthorized communication attempts and
			limiting such to a predetermined number.
			Purpose is to block an illicit caller using
			various codes until a hit is accomplished.
4,856,066	Lemelson	08/1989	Spoken words generate codes which address
(Supplemental VA)	'		a memory to record or fetch messages which
Li			are composed of spoken words. Codes are
1.	``		identified by computer.
L4,932,021	Moody	06/1990	Repeated entry of commands to define a
(Supplemental VA)	1110007	'	path to access a service, results in storing the
Joupplemental V/V			path and offering it to the user as a "short
# # THE PROPERTY OF THE PROPER			cut" to the service.
F4 051 307	Willard	08/1990	Telephone answering machine offers a touch
[4,951,307	VVIIIaiu	, 00, 1330	tone choice of persons to receive message.
(Supplemental VA)	Daudelin	09/1990	In a directory assistance system, caller is
4,959,855	Daudeiiii	09/1990	offered the option of the located number
(Supplemental VA)			being dialed.
1		07/1001	ANI number display at called station along
5,033,076	Jones, et al.	07/1991	
(Supplemental VA)			with call screening. In a speech recognition system, if speech is
5,033,088	Shipman	07/1991	in a speech recognition system, it speech is
(Supplemental VA)			not recognized after two inputs, a recorded
			form is delivered to an operator, possibly for
		<u> </u>	input to further the task.
5,054,059	Stern, et al.	10/1991	A telephone interface system for specialized
(Supplemental VA)			installations (hospital, etc.) incorporating
			select control functions.
5,125,024	Gokcen, et al.	06/1992	Telephone interface with interruption of a
(Supplemental VA)	, , ,	1	cue in transmission by a caller, prompting
(Juppiemental 17)			the next cue.
5,148,474	Haralambopoulos,	06/1992	In a value-added operation, caller can bill
(Supplemental VA)	et al.		to another number, also ANI screen pop.
(Supplemental VA)	CLai.		

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
- 161 001			C. H La Salanda La constata de la
5,164,981	Mitchell, et al.	11/1992	Caller who is denied access to host system is
(Supplemental VA)			transferred to operator who also received a
			display of the contents of a "transaction
			memory". In view of the elements in
			applicant's claims involving operator
	,	•	displays and the priority dates, the reference
			is not pertinent.
5,168,548	Kaufman, et al.	12/1992	In a speech recognition system, input is
(Supplemental VA)			reduced to image data for fax transmission.
5,179,585	MacMillan, Jr., et al.	01/1993	A voice message system uses modules for
(Supplemental VA)	, , , , , , , , , , , , , , , , , , , ,	,	different operations, e.g. bulletin board,
(Supplemental VII)			voice mail, networking, etc.
5,181,236	1 - 1	01/1993	Messaging system with message delivery
	LaVallee, et al.	01/1993	and telephone number notice for call
(Supplemental VA)		, i	return.
Г 10 <i>С 47</i> 1	Vanaraovnost	02/1993	Gaming system uses PTMF both for remote
5,186,471	Vancraeynest	02/1993	station and central to facilitate a match test.
(Supplemental VA)	O.C. III:	05/1003	
5,214,689	O'Sullivan	05/1993	A transportation information system that
(Supplemental VA)			searches memory to locate "closest" trip to
LH,			the time specified by a telephone inquiry.
≛5,236,199	Thompson, Jr.	08/1993	A system for using a conventional telephone
』(Supplemental VA)			keypad to simulate a mouse, joy stick and so
•			on, for interface use.
1 5,289,531	Levine	02/1994	A scheduling system for appointments by
(Supplemental VA)			telephone (interactive) whereby time slots
		İ '	are filled by computer.
₹ 5,327,554	Palazzi, III, et al.	07/1994	System uses telephone and television
(Supplemental VA)			receiver to facilitate interactive
E COOPPICITION VIV			communication with a host computer.
± ±5,361,295	Solomon, et al.	11/1994	An interactive telephone system buffer for
	Joiomon, et al.	11/1334	interfacing parties without revelation of their
(Supplemental VA)		•	telephone numbers. Uses DID embedded in
furth			used number.
	1,,	11/1004	
5,369,685	Kero	11/1994	A personal voice activated telephone
(Supplemental VA)			directory uses network storage with verified
			access to reveal telephone numbers.
- 5,416,830	MacMillan, Jr., et al.	05/1995	For voice messaging, modules (bulletin
(Supplemental VA)			board, voice mail, networking, etc.) are used
			to process voice.
5,511,112	Szlam	04/1996	Outbound call processor schedules calls for
(Supplemental VA)			agents according to rank and priority.
5,537,143	Steingold, et al.	07/1996	1 0. 000
(Supplemental VA)	0.00100.07		telephone, the system enables interactive
A contract account of A	,		communication in a gaming format.
5,561, <i>7</i> 10	Helms	10/1996	A device for providing alphanumeric
(Supplemental VA)			representations from a keypad that generate
(Cappionicinal 171)			DTMF signals in sequences.
5,623,536	Solomon, et al.	04/1997	Another anonymous interface system per
	Joiothon, et al.	3 11 13 37	1
(Supplemental VA)	23.0		5,361,295

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
5,651,048 (Supplemental VA)	Leeuw	07/1997	A switching arrangement with a charge circuit to control state.
5,768,348 (Supplemental VA)	Solomon, et al.	06/1998	Another anonymous patent, see '536 and '295.

Foreign Patents:

Patent No.	Country	Public. Date	Comment
1162484	Great Britain	04/1967	Central office call blocking by storing
(Supplemental VA)		·	connections to be blocked.
WO 89/11768	PCT	11/1989	A caller identification system (ANI) for use as
(Supplemental VA)		1	to block calls from defaulted lines.
WO 90/10989	PCT	09/1990	Infraction retrieval system using fax
(Supplemental VA)	• •		communication and DTMF.
WO 90/11661	PCT ·	10/1990	Catalog ordering system: callers telephone
(Supplemental VA)			number (buyer ID), called telephone number
(Suppremental)			(seller ID), and product number (product) are
7	1		communicated to seller as an order.
WO 91/15818	PCT	10/1991	System for telephonically accessing a data
(Supplemental VA)	,		base using telephone and fax.
WO 92/06548	PCT	04/1992	An audio response system wherein a
(Supplemental VA)		,	plurality of audio units (ARUs) are controlled
- Copplemental 174		,	by a central command apparatus.
WO 92/09164	PCT	05/1992	An interactive system for routing or assigning
(Supplemental VA)			and re-assigning calls to different agents
#			based on caller-entered commands.
WO 92/15166	PCT	09/1992	A voice message system is enhanced with a
(Supplemental VA)			program for handling incoming calls and
			using received network information.
2253542	Great Britain	09/1992	A system for accommodating connections for
(Supplemental VA)	,		extension telephones and using
			authorization codes.
EP 0 382 212 B1	EPC	07/1998	A multimedia communication system
(Supplemental VA)			(telephone, fax, etc.) with economy of time
			and clear operation cues.
EP 0 382 670 B1	EPC	04/1997	Interface operation sequence is controlled by
(Supplemental VA)	,		a "state" register ("Play prompt", "get key",
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		"wait for call", etc.) which implements
			actions and advances.
EP 0 438 860 B1	EPC	09/1996	Call blocking method.
(Supplemental VA)	· .	,	
0 451 693 A2	EPC	10/1991	Selectively controlling access to network
(Supplemental VA)			services based on subscriber or non-
,		•	subscriber.
0 451 695 A2	EPC	10/1991	Controlled access to telephone services
(Supplemental VA)			based on voice recognition templates.
0 453 831 A2	EPC	10/1991	Control of telecommunications access based
1 0 .00 00	1	1	on voice spoken phrases.

Patent No.	Country	Public. Date	Comment
0 454 363 A2	EPC	10/1991	Telecommunications access control based
(Supplemental VA)			on speech recognition.

CHART B (SUPPLEMENTAL VII)

Foreign Patents:

Patent No.	Country	Public. Date	Comment
WO 87/00370	PCT Int. Application	01/15/1987	PCT application describing a modulation technique for data transmission (spread spectrum).
	<u> </u>		

Other Documents:

Title of Article/Publication	<u>Date</u>	Comment
Aarons, D., "The Voice of the 80's," PC	March 5, 1985	#75, Synthetic speech only.
Magazine, Volume 4, Number 5, March		
5, 1985, p. 114 (A21707135)		
(Supplemental VII)		
"ACD 'Magic' from AT&T's Merlin,"	April 1986	Call distribution per Merlin and call
Telecommunications Product Review,		processing in a very general way, e.g. line
Volume 13, Number 4, April 1986		status, assignment, queues, time
(A21708371)		accounting.
(Supplemental VII)		, in the second
"Actor Promotes Phone Services,"	August 23,	soap opera information is available by
Hammond Louisiana Star, August 23,	1984	telephoning a service in New Orleans.
1984 (A21708860)		Charges a caller's bill. – "976".
(Supplemental VII)		
Allerbeck, M., "Experience with the Voice	May 1984	EMS 2000 Info – Voice Mail – Receives,
Mail System EMS 2000 Info – Results of	,	stores and transmits spoken messages –
an Acceptance Study," ISS '84 Florence,	ŕ	PTMF control and voice prompts.
May 1984, Session 14 A, Paper 6, Page		
1	,	
(Supplemental VII)	1005	
Amano, Fumio, et al., "Imagephoe!!:	1985	Non-machine interface discloses a tablet
Integrated Voice/Data Terminal With		for digitizing drawings and various controls
Hand-Drawing Man-Machine Interface,"	· ·	for imaging.
IEEE, 1985 (A03701430)		1
(Supplemental VII)	May 19, 1986	1006 Computer world stary lines value
Ambrosio, Johanna, "Electronic and	iviay 19, 1966	1986, Computer world story lines, voice
Voice Mail; They're No Match for Each		mail, electronic mail.
Other-Yet," Computerworld, May 19, 1986, p. 53 (A21708461)		
(Supplemental VII)	,	
"American-Network: Files Complaint	June 4, 1986	Press Release on AmNet suit against Pac.
Against Pacific Northwest Bell," Business	Julie 4, 1900	Norwest Bell alleging anti-trust violation.
Against Facility Northwest Dell, Dusiness	L	TWO WEST DELI Alleging anti-trust violation.

Title of Article/Publication	Date	Comment
Wire, June 4, 1986 (A21708495)		
(Supplemental VII)		
"American-Network: Signs Letter of	August 14,	1984, Press Release re: Am Net, Inc.'s
Intent to Merge L D Communications	1984	intent to merge with L.D. Comm.
Long Distance Service into the		
Company," Business Wire, August 14,		
1984 (A21708856)		
(Supplemental VII)		
Andrews, Edmund L., "Patents:	December 24,	Story on FDR re game show; news piece
Computer System Lets TV Audience Join	1988	on FDR and RAK.
Show," The New York Times, December	,	·
24, 1988 (A01331146)		
(Supplemental VII)		
Arnst, Catherine, Press Release,	September 16,	Press Release re: voice mail.
Reuters, September 16, 1984	1984	
(A21708908)		
(Supplemental VII)	,	
"AT&T Announces Major Additions to	December 14,	AT&T announces telemarketing products,
Telemarketing Products and Services,"	1987	no detail.
Telephone News, December 14, 1987		
(A21723927)		
(Supplemental VII)		
⁴"AT&T AT&T Announces New Software	February 10,	AT&T announces new PBX that is
ুEnhancements," Business Wire,	1987	compatible with ISDN.
February 10, 1987 (A21707782)		
(Supplemental VII)		
"AT&T Announces New Software	February 10,	Press Release on AT&T software for digital
Enhancements for its PBX," PR	1987	interfaces.
Newswire, February 10, 1987		,
(A21707779)		
(Supplemental VII)		News air as ATRT's Convergent plans
"AT&T Computer System Will Be	September 9,	News piece on AT&T's Conversant plans
Produced Here," The Columbus	1985	for production in Columbus, Ohio.
Dispatch, September 9, 1985	•	
(A01354694)	V	
(Supplemental VII)	04	News piece on AT&T's Conversant plans
"AT&T Computer System Will Be	September 9,	
Produced Here," The Columbus	1985	for production in Columbus, Ohio.
Dispatch, September 9, 1985		
(A01354694)	,	
(Supplemental VII)		News siege on ATST Convergent and
"AT&T CPU Puts Voice Recog on Any	Unknown	News piece on AT&T Conversant and
Phone," Article Source Unknown		other systems.
(A01354681)		
(Supplemental VII)	Lub. 4007	Article on AT&T's "Merlin II" featuring
"AT&T's Digital MERLIN,"	July 1987	l l
Telecommunications Product Review,		voice/data operations.
Volume 13, Number 7, July 1987		
(A21724743)		
(Supplemental VII)	Lulu 4004	Article on AT&T's "System 75" for digital
"AT&T's Flagship System 75: A	July 1984	· ·
Comprehensive Analysis of the System		interfaces.

Title of Article/Publication	Date	Comment
85's 'Little Cousin," Telecommunications		
Product Review, Volume 11, Number 7,		
July 1984 (A21724612)		
(Supplemental VII)		
"AT&T Forms Unit to Sell Synthetic	September 10,	News piece on AT&T Conversant systems
Speech Systems," Wall Street Journal,	1985	organization.
September 10, 1985 (A01354689)		
(Supplemental VII)		
"AT&T Plans Computer Unit," The New	September 10,	News piece on AT&T speech recognition
York Times, September 10, 1985	1985	system.
(A01354690)		
(Supplemental VII)		
"AT&T Showtime's Viewer's Choice,	December 5,	Viacom and AT&T release on "Viewers
Viacom Cable and AT&T to Test Pay-	1985	Choice" pay-per-view.
Per-View Ordering System," Business	,	-
Wire, December 5, 1985 (A21708103)	• '	
(Supplemental VII)		,
"AT&T Sports Service," PR Newswire,	September 24,	Release on "Dial-It" for 900 sports
September 24, 1980 (A21710432)	1980	highlights by telephone.
(Supplemental VII)	•	
"The AT&T System 25,"	August 1986	The AT&T "System 25 voice/data PBX for
Telecommunications Product Review,		routing and signaling.
₽Volume 13, Number 8, August 1986		
↓ J(A21706368)		
≟(Supplemental VII)		
Press Release, PR Newswire, November	November 1,	AT&T's "System 85" expanded PBX for
1, 1984 (A21708963)	1984	messaging, ESS interface, etc.
(Supplemental VII)		ATOTA Tarkainal lawrend on the FECC
AT&T Technical Journal – The 5ESS	July-August	AT&T's Technical Journal on the 5ESS
Switching System, Volume 64, Number	1985	switch, with: data management (1364), peripheral control (1370), data access
6, Part 2, July-August 1985 (A21723626)	, ,	(1365), switching control (1371),
Supplemental VII)		administrative services (1375), call
₩. ₩		processing (1373), and billing (1377). Note
		5ESS is the fifth in the series of stored
4		program control units. Digital operation
·		and time-division were implemented in
		4ESS. Of course, software could
		implement many specific features, as call
•	,	processing, The "Journal" consists of a
	-	number of technical papers, however, no
	,	pertinence found.
Excerpt from AT&T Technical Journal,	September-	Part of an article on Conversant hardware
September-October 1990, pp. 53-60	October 1990	and software architecture.
(A21723942)		
(Supplemental VII)		
"Automated Switchboard Attendant	July 1985	Article on an "automated switchboard"
Helps Insurance Company Control Net	'	replacing operators.
Expenses," Communications News, July	•	
1985 (A21726011)		
(Supplemental VII)		·
Aversano, Nina, "The Telephone as	Fall 1989	A lay article on voice response and

Title of Article/Publication	Date	Comment
Computer," Review of Business, Fall		computer interface.
1989, p.5 (A21723928)		· ,
(Supplemental VII)		
Ayres, Paul, "Voice Response Pay-By-	November 9,	News article on pay-by-phone using voice
Phone Matures," Computerworld,	1979	response to form a record of payment.
November 9, 1979, p. 47 (A21725960)	1010	, ,
(Supplemental VII) Baker, Janet M., "Voice-Store-And-	August-	An introductory comment on the function of
Forward: The Voice Message Medium,"	September	voice messaging and speech recognition.
Speech Technology, August-September	1984	75.55555.55
1984 (A21724633)	1001	
1		
(Supplemental VII)	June 29, 1984	Gordon Matthews conceives of voice mail
Bakke, Bruce B., "Electronic Voice	Julie 25, 1564	and the formation of VMX, Inc.
Mailbox: Potential for Fast Growth," BC		
Cycle, June 29, 1984 (A21708785)		
(Supplemental VII) Bakke, Bruce, B., "GTE's 'Voice	April 11, 1983	A form of voice mail implemented in Texas
Bakke, Bruce, B., GTE'S Voice	April 11, 1500	by GTE is described.
Mailboxes' Page the World," U.P.I., April		
11, 1983 (A21713359)		
Supplemental VII) Barbetta, Frank, "AT&T Offers Digital	November 5,	AT&T's "System 85" (PBX) upgrades are
PBX Enhancements," Electronic News,	1984	described. Software packages and
	1904	enhanced structure is identified.
Volume 30,, November 5, 1984, p. 69		omanos sussessina
4(A21708967)		
(Supplemental VII)	Unknown	Article on AT&T's "LASS" available on the
Barbetta, Frank, "Custom Functions	Olikilowii	IAESS switch to enhance calling functions,
Offered in New AT&T Co. Package,"		e.g. call tracing, call transfers, redial, etc.
Article Source Unknown (A21726008)		o.g. oan a cong,
Supplemental VII) Barkauskas, B. J., et al., "Network	June 1983	(Incomplete) Network Services Complex is
Barkauskas, B. J., et al., Network	Julio 1000	described with 4ESS switches to
Services Complex: A Generalized Customer Interface to the Telephone		conference users.
Network," IEEE International Conference		
network, TEEE International Conference Second,		,
Volume 2, June 1983, p. 805		
(A21725715)		
(Supplemental VII)		,
Barlin, David, "Switch-Hitter: A Data	October 1984	Story on PBX managers, their areas and
Man's Guide to the World of Voice," Data	,	interests. Also summarily treats PBX
Communications, October 1984, p. 114		products of several companies.
(A21708926)		`
(Supplemental VII)		
Basso, Richard J., et al., "Expanding the	February 1983	Article on "operator" replacement
Capabilities of the ? Traffic Service	'	computers; Processor and peripherals are
Position System," Bell Laboratories		treated.
Record, February 1983, pp. 22-27		
(A21724556)		
(Supplemental VII)		
Belcher, Jerry, "Earthquakes in Mexico;	September 22,	Story on Mexican earthquake relief.
U. S. Relief Includes Hardware, Experts;	1985	
Cash Aid Suggested," Los Angeles		
Times, September 22, 1985		
Times, September 22, 1900		

Title of Article/Publication	Date	Comment
(A21708026)		,
(Supplemental VII)		D.
"Bell Files Tariffs on CO-Based Switching	Unknown	Article on Bell re: potential for data
System in PA.," Communications, Date		processing.
Unknown (A21725944)		
(Supplemental VII)		
Bell Laboratories Record, August 1984,	August 1984	Cover pages of AT&T publication
Cover Page and Table of Contents		"RECORD"; no pertinence found
(A21708811)		
(Supplemental VII)		
The Bell System Technical Journal, May-	May-June 1982	Bell Technical Journal, (61) includes
June 1982 (A21709814)		articles on Human Performance
(Supplemental VII)		Engineering and voice storage. Probably
(Supplemental VII)	•	basis for selection but still not pertinent.
		Note descriptions of "voice-mail" type
		operators.
Excerpt from The Bell System Technical	October 1980	Part of an article (1980) perhaps from the
Journal, October 1980, pp. 1384-1395		Bell Technical Journal on speech storage
(Supplemental VII)		(pp. 1384-1392)
Bertoglio, O., et al., "An Interactive	June 1984	Article on aspects of voice messaging.
Procedure for Voice Messaging Services		
n a Traditional Network," CSELT		,
Technical Reports, Volume 12,		
Supplement 10, Number 3, June 1984		
#≟(A21708755)		•
(Supplemental VII)		
Bingham, Sanford, "Groceries By	August 1988	Article on interactive system for ordering
Phone," Inbound/Outbound, August 1988	,	groceries from home.
(A21725728)		·
(Supplemental VII)		
"Some Tips on Integration,"	August 1988	Article on Data Management generally for
Inbound/Outbound, August 1988		telephone interface systems.
(A21725731)		
(Supplemental VII)		
Black, Philip, "How ISDN Services Could	June 1984	Article on ISDN – 1984 (Integrated
Make or Break the Big Network," Data		Services Digital Network).
Communications, June 1984, p. 247		
(A21708771)		
(Supplemental VII)		
"Blast' from Data Systems Runs Under	May 3, 1982	Story on a computer interface software.
DG's AOS/VS," Computerworld, May 3,		
1982, p. 38 (A21724423)		
(Supplemental VII)		
Booker, Ellis, "How to Save Big Bucks on	November 15,	Story on PABX and call recording services.
Phone Calls," Computer Decisions,	1984	
Volume 16, November 15, 1984, p. 16	·	
(A21708983)		
(Supplemental VII)		
Borchering, J. W., et al., "Customized	May 1984	AT&T article on switching systems,
Switching Systems," ISS '84 Florence,		spcifically 5ESS and benefits of
May 1984, Session 14 A, Paper 4, pp. 1-		customized operators.
5 (A21725533)		

Title of Article/Publication	Date	Comment
(Supplemental VII)		
Bowling, Tom, "Pay TV: A Pay-Per-	March-April	Description of Pay TV based on scrambling
Minute System Prototype," Television:	1984	operators, decoding by: mail requests,
Journal of the Royal Television Society,	,	telephone operators, cable communication,
March-April 1984, pp. 79-83		pay-per-minute.
(A21724588)		
(Supplemental VII)	,	
Brady, Erik, "Players, Fans Get Back in	Unknown	Strike ends.
the Swing," USA Today, Date Unknown		
(A21706710)	,	
(Supplemental VII)		
Brady, Erik, "Resentful Fans Verbally	Unknown	newspaper piece on baseball strike, no
Strike Back," USA Today, Date Unknown		pertinence.
(A21706709)	,	i e
(Supplemental VII)	•	
Brooke, Jill, "A Hi-Tech Interactive TV	January 20,	News piece on FDR Interactive operations,
Service is Planned," New York Post,	1989	as for promotions and sales.
January 20, 1989 (A01331148)		
Supplemental VII)		
Brown, Jim, "Contracts; Rolm Wins	March 9, 1987	Columbia University signs with IBM/Rolm
College Bid," Network World, March 9,	·	for new Telephone Switch.
1987, p. 4 (A21707859)	,	·
Supplemental VII)	,	
Brown, Jim, et al., "ICA Preview; AT&T	May 26, 1986	AT&T announces ISDN, ACD services and
May Steal Show," Network World, May		a new PBX.
26, 1986, p. 1 (A21708473)		
Supplemental VII)		
Brown, Jim, "PBX Market; Rolm Beefs up	February 9,	Rolm Corp's new switch.
CBX Line Capacity," Network World,	1987	
February 9, 1987, p. 4 (A21707777)	'	
(Supplemental VII)	•	
Brown, Jim, "VMX 5000 Series; Voice	October 13,	VMX, Inc. announces voice messaging
Messager Debuts," Network World,	1986	system.
October 13, 1986, p. 6 (A21706653)	-	
(Supplemental VII)		
Brown, Jim, "Voice Mail; Rolm to	February 2,	Rolm Corp.'s new phonemail.
Accounce New Low-Cost Phonemail,"	1987	
Network World, February 2, 1987		
(A21707763)		
(Supplemental VII)		
Buckhout, Wayne, "Columbus-Born	September 10,	News piece on AT&T interface computer in
AT&T Computer Listens, Talks and	1985	Columbus, Ohio (Conversant).
Shows Promise," Article Source		
Unknown, September 10, 1985		
(A01354692)		
(Supplemental VII)		- TO TO
Bulfer, Andrew F., et al., "A Trial of a	1986	AT&T's pay per view.
National Pay-Per-View Ordering and		
Billing System," NCTA, 1986		
(A21724669)		
(Supplemental VII)	1000	an article on computerized switches, and
Burstyn, H. Paris, "Phone Features: The	June 1986	an article on computenzed switches, and

Title of Article/Publication	Date	Comment
Next Wave," High Technology, June		offerings as call blocking, call forwarding,
1986 (A21726009)		caller i.d., etc.
(Supplemental VII)		
Capital Cities/ABC Video Enterprises,	January 19,	Story on FDR-ABC agreement.
Inc. Teams with FDR Interactive	1989	
Technologies to Explore Applications for	1300	
New Telephone Technology," Capital		
Cities/ABC, Inc. Broadcast Group,		
January 19, 1989 (A01331147)		
(Supplemental VII)		
Carlson, Rolf, et al., "Text-To-Speech	June 1983	Text-to-Speech article limited to text-to-
conversion in Telecommunications,"	Julio 1000	speech substance.
Conversion in Telecommunications,	;	opooli care and
Proceedings of the Tenth International		
Symposium on Human Factors in	,	
Telecommunications, June 1983, pp.		
239-245 (A21725801)		
(Supplemental VII)	December 5,	Pay-per-view, uses ANI but no other details
Press Release, PR Newswire, December	1985	provided for phone system that can use
5, 1985 (A21708106)	1900	rotary dialing.
Supplemental VII)		Total y diamig.
The state of the s	11.1	Updated news article on telephone
Chapin, Dwight, "A Kids' Game," Article	Unknown	baseball game.
Source Unknown (A21706674)		baseball garrie.
(Supplemental VII)	1	Basic phone mail system takes messages.
Charlish, Geoffrey, "Telephone Message	January 16,	Basic priorie maii system takee meesages.
that Failed to Get Across to the U. K.,"	1986	, .
Financial Times, (A21708203)		
(Supplemental VII)	Cantombor 1	Story on "equal access" as may be
Collins, Francis R., "Reality of Equal	September 1, 1984	required of AT&T.
Access: Implementation Problems,"	1904	required of AT&T.
Telephone Engineer & Management,		
Volume 88, September 1, 1984, p. 128	,	
(A21708884)		
(Supplemental VII)	January 20,	Story on FDR service.
Company News: Phone Service to be	1989	Story of 1 Bix services
Tested," The New York Times, January	1909	
20, 1989 (A01331395)		
(Supplemental VII)	1984	Electronic News Sheet, no relevance is
"Components," Electronic News, 1984	1904	perceived.
(A21726007)	,	perconvou.
(Supplemental VII)	Unknown	Voice response for PBX use is considered.
"Computerized Telecommunications	Ulikilowii	Volido Tosporiso for 1 DA doo to considered.
Switching Systems," Article Source	,	
Unknown		
(Supplemental VII)	July 0, 1004	1984 article on phone system for political
Connolly, James, "Republican	July 9, 1984	conventions, not pertinent.
Convention Set to Test		Conventions, not portmont.
Telecommunications," Computerworld,		
July 9, 1984, p. 17 (A21708804)		
(Supplemental VII)	I Imless are	Introductory article on audiotex telephone
Conroy, Cathryn, "Audiotex Arrives,"	Unknown	interface equipment.
Monitor, Date Unknown (W71189)		ппенасе ечиритеть.

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Command a Computer," The	2985	and computer interface technology.
Sacramento Bee, September 10, 2985		
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Application," The Bell System Technical	,	telephone switches, call processing (p.
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Makes Moves to Boost Voice Messaging		Patent).
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414, 1986, p. 19 (A21706328)		
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Computer Giants," South Florida	1985	asserted in a patent case.
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1984, p. 7 (A21708903)		
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Electronics Giant Disconnected Deal,"		processing, EDS suit on voice response
San Francisco Business Times, Volume		contract, and sports celebrities.
2, Number 33, April 18, 1988	1	
(A21724767)	,	
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Systems," Patricia Seybold's Office	,	voice mail, it's growth, functions, and
Computing Report, Volume 10, Number		history from Matthews, details information
9, p. 1-28 (A21716964)		retrieval (p. 7) along with players, market
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(Supplemental VII) Whitten, W. B., II, "Advanced Interfaces	Unknown	Article: AT&T is delivering service
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Speed Delivery of Services," AT&T		easy to use involving the human-computer
Technology, Date Unknown (A21707593)		interface.
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New Products," Telecommunications		telephones).
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DeLessio, N. X., et al., "An Integrated	May 1984	May 1984 – discusses operator services
*Operator Services Capability for the		using 5ESS system and various terminals,
5ESS System," ISS '84 Florence, May		however still manual.
41984, Session 22 C, Paper 3, Page 1-5		nowever still manual.
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#January 20, 1969 (A21725951)	1969	experiment using telephones to test, e.g.
(Supplemental VII)		"What is four plus two?" Correct answers
		prompt another question, wrong answers
		prompt repeat – record is made.
"Dialing for Pennies," California Living	August 12,	Magazine article reveals that 976 line gets
Magazine, August 12, 1984 (A21708855)	1984	pre-recorded messages at 35 cents a call.
"Distributed Data Processing and	May 1986	Article lists data processing and messaging
Messaging Systems," Data		systems available – appears quite
Communications, May 1986, p. 105		comprehensive.
(A21708428)		
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its Switch-and-Wire Beast," Network	1986	facilitate voice-data communication; stories
World, October 27, 1986, p. 1		on AT&T related subjects, specifically:
(A21706662)		ISDN is coming, expanded PBX
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(oakkionian)		voice messaging and data
		accommodations.

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Dix, John, "AT&T Unleashes 'Gazelle,"	April 30, 1984	AT&T introduces a voice/digital PBX.
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Dix, John, "Enhancements Out for	November 12,	Story on AT&T's high end PBX, as for
AT&T's High-End PBX," Computerworld,	1984	voice mail.
November 12, 1984, p. 99 (A21708970)		
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Brown, Jim, "VMX 5000 Series: Voice	October 13,	Story on AT&T's high end PBX, as for voice
Messager Debuts," Network World,	1986	mail.
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Costs with Voice Mailboxes," Network		
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Recording.," Network World, July 14,		engineering.
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Dix, John, "Rolm; Long-Awaited	June 2, 1986	Story on Rolm Corp.'s telephone switch for
Redwood to Debut at ICA Today,"	,	use as a key system or PBX.
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Reveals New Message Blueprint,"	1986	electronic mail, voice mail, and image mail.
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Today's Users Need?," Computerworld,		data.
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Network," Business Communications		etc.
Review, January-February 1981		
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Emerging Computer ? Technology,"	September	recognition.
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York Times, April 16, 1988 (A21725852)		
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Facilities (in Japanese), Volume 33,	1301	Apparently a paper on o :
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Office Systems of the World," Edited by	1902	several specific switches, e.g. 4ESS,
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Press Release, PR Newswire, March 20,	March 20, 1904	mail," No details.
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Wilderness," Computerworld, June 13,	'	
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System," AT&T Technology, Date		transaction.
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Tube," The New York Times, March 29,	10101120, 1001	pay-per-view service.
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"The Father of Voice Messaging,"	1984	voice mail.
Network World, November 1984, p. 57	1904	· ·
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Feldman, Robert, "New AT&T Packages	June 2, 1900	equipment as call management and
Designed to Spruce up Systems 75/85,"		speech conversions.
MIS Week, June 2, 1986, p. 30		Special content of the content of th
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Fine, Happy, "Tavern on the Bluegrass,"	Unknown .	Aitioica oi paakotaan.
Eastern Basketball, Date Unknown		
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First Data," Reuters, October 17, 1994	1994	. ,
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Fischell, David R., et al., "Interactive	October 1990	response as for voice mail, information
Voice Technology Applications," AT&T	October 1990	sources, and transactions.
Technical Journal, September-October	'	Sources, and transactions
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with Integrated Call Centers," AT&T		ISDN, voice, etc.
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Froehlich, Leopold, "Are Smart Buildings	1985	as a modern PBX.
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System Technical Journal, Volume 61,		improve routing and call control (1AESS).
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Technologies Bring New Ways to		subjects, only speech processing is of
Conduct Business," AT&T Technology,		interest and it is not pertinent.
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Response System to Practice Mental		program "dial-a-drill" for student use.
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Hospitals with DIMENSION 2000 PBX,"	1981	PBX.
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System to Rolm PBX," Computerworld,	1986	PBX.
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Gitten, L. J., et al., "5ESS System	IVIAY 1304	capabilities.
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Now! New Digital Networks Can Give	,	electronic mail.
Companies a Competitive Edge,"		
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Forbes, March 10, 1986, p. 9	'	mail.
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Voice/Data Independents?," Purchasing,	1984	voice mail and related equipment.
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Telephone Service: Some Bad News for	1986	reconnect, call forwarding, call tracing,
Nuisance Callers," The New York Times,	,	screening, etc. ANI.
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Grunbaum, Rami, "Genesis Electronics	March 10, 1986	Story on voice mail of Genesis Electronics.
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June 1980 (A21709547)		connector, etc.
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Hancock," Computerworld, April 14,		telephone systems.
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Fill Gaps in System 75 Digital PBX,"		AT&T.
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WMX, Inc. Announces Another Good	August 1, 1984	Story on VMX voice mail financial.
Quarter," Southwest Newswire, August 1,	, laguet i, ite	
1984 (A21708846)		
(Supplemental VII)		
VMX, Inc. Announces First Quarter	October 18,	Story on VMX voice mail markets.
Results," Southwest Newswire, October	1985	,
18, 1985 (A21708063)	•	
(Supplemental VII)		
VMX, Inc. Announces Landmark	June 1, 1984	Story on VMX voice mail regarding foreign
Approval of first Voice Message System		expansions.
in Japan," Southwest Newswire, June 1,		
1 1984 (A21708776)		
(Supplemental VII)		0
"VMX; (VMXI) AT&T Tops List of Seven	September 9,	Story on VMX voice mail licenses.
License Agreements Granted in Third	1986	
Quarter," Business Wire, September 9,		
1 _, 986 (A21706457)		
(Supplemental VII)	1 1 10 1000	Other and MAN arrian mail comings
"VMX-Inc; (VMXI) Hosts First	July 18, 1986	Story on VMX voice mail seminar.
International Networking Seminar,"	,	,
Business Wire, July 18, 1986		
(A21706345)		
(Supplemental VII) "VMX, Inc. Provides First Voice Message	December 11,	Story on VMX voice mail related to
(SM) Systems to Three Bell Operating	1984	customers.
Companies," Southwest Newswire,	,	3333.113131
December 11, 1984 (A21709007)		
DECEMBER 11, 1904 (AZ 1109001)	l	<u> </u>

Title of Article/Publication	Date	Commont
(Supplemental VII)	Date	Comment
	A	Otania and MANA at a l
"VMX, Inc. Releases Audited Fiscal 1984	August 7, 1984	Story on VMX stock.
Financials – It was a Very Good Year,"		
Southwest Newswire, August 7, 1984		
(A21708852) (Supplemental VIII)		
(Supplemental VII)	0.4-1-7	,
"VMX; (VMXI) Voice Messaging Leader	October 7,	Story on new VMX streamlined product.
VMX, Inc. Launches New Generation	1986	
Technology with VMX(R) 5000 Series,"	\$	
Business Wire, October 7, 1986		
(A21706650)		
(Supplemental VII)	Contombox 15	Ctons on MMV and only
"VMX; (VMXI) Voice Messaging Patent- Holder VMX Inc. Moves into France after	September 15, 1986	Story on VMX patents.
1	1900	
Signing Distribution Agreement with		·
Jeumont-Schneider," Business Wire,		
September 15, 1986 (A21706459)		
(Supplemental VII) "VMX; (VMXI) VMX 5000 Series Voice	March 40, 4007	Otania a MAY hardana
Series voice Messaging System Scores High Sales	March 10, 1987	Story on VMX business.
During First Quarter," Business Wire,		
March 10, 1987 (A21707862)		
armaich 10, 1967 (A21767662) armaich 10, 1967 (A21767662)		•
Press Release, Communications Daily,	October 26,	Story on VMX stock.
Volume 4, Number 209, October 26,	1984	Story of Vivia Stock.
1984, p. 6 (A21708939)	1904	' '
(Supplemental VII)		
Press Release, Computerworld, October	October 7,	Story on VMX operations generally.
7, 1985, p. 68 (A21708055)	1985	Otory of Vivix operations generally.
(Supplemental VII)	1905	
Press Release, PR Newswire, January	January 18,	Story on VMX financial.
18, 1984 (A21708570)	1984	Otory on vivix infancial.
(Supplemental VII)	,	
Press Release, PR Newswire, April 10,	April 10, 1984	Story on VMX financial.
1984 (A21708655)	April 10, 1004	Clory of Vivix intericial.
(Supplemental VII)	_	
Press Release, PR Newswire, October	October 16,	Story on VMX sales.
16, 1984 (A21708935)	1984	Clory on vivix saics.
(Supplemental VII)	1004	,
Press Release, PR Newswire, January	January 24,	Story on VMX stock.
24, 1986 (A21708207)	1986	Story on vivix stook.
(Supplemental VII)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· ·
Voice Mail Brochure, Radio-Suisse Ltd.,	Unknown	Voice mail operating scripts.
Date Unknown (W70172)		t olds mail operating compto.
(Supplemental VII)		
"Voice Messaging Capability from VMX,"	October 1985	Story on VMX voice mail software.
The Magazine of Bank Management,		,
October 1985, p. 86 (A21708037)	·	
(Supplemental VII)		
Voice Processing International	July 1986	Announcement on voice processing
Conference Program, July 1986	,	conference.
(A21723351)		
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Title of Article/Publication	Date	Comment
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Voice Processing – The New Revolution, Proceedings of the International Conference, July 1986 (A21722980) (Supplemental VII)	July 1986	Proceedings of conference on voice processing with many papers, see p. 41 on interactive.
"Voice '92," Conference Information and Program, 1992 (W11651) (Supplemental VII)	1992	A group of publications on a conference on voice applications.
"Voice System Tunes up Automaker's Communications," Computerworld, November 12, 1984, p. 35 (A21708972) (Supplemental VII)	November 12, 1984	Story on VMX voice mail at Ford Motor
Press Release, Communications Daily, Volume 4, Number 110, June 6, 1984, p. 9 (A21708778) (Supplemental VII)	June 6, 1984	Story on VMX in Japan.
"Votrax Announces Centrum 9000, Model 5," Source Unknown, October 16, 1987 (A21724763) "Supplemental VII)	October 16, 1987	Story of Votrax announcing new "Centrum" model PBX.
Waite, Andrew J., "Applying IVR Systems," Inbound/Outbound, September 1988, pp. 30-39 (A21725733)	September 1988	Articles on interactive planning installation and available systems
Walker, Murt, "CCS7 Offers New Paths to Revenue Generating Services,""AT&T Technology, Volume 6, Number 2, 1991, pp. 8-19 (A21713600)	1991	AT&T Technology article on switch services.
Wallace, Bob, "All Voice Systems Are Not Alike," Network World, September 14, 1987 (A21712240)	September 14, 1987	Story on Intercom's voice mail and others.
Wallace, Bob, "Comnet '87; AT&T Announces ISDN Interface for System 85," February 16, 1987 (A21707796) (Supplemental VII)	February 16, 1987	Story on AT&T's ISDN interface with System 85 PBX.
Walters, R. E., et al., "Voice Processing Systems in British Telecom," British Telecommunications Engineering, Volume 9, July 1990, pp. 88-97 (Supplemental VII)	July 1990	British Telecom Engineering article on voice processing includes recognition of interactive operations.
Warner, Edward, "Bank's Speech Synthesizers Greet Financiers' Calls with Daily Balance," Computerworld, October 22, 1984, p. 6 (A21708937) (Supplemental VII)	October 22, 1984	Story on Boston bank's speech synthesis.
Watt, Peggy, "Local Phone Companies Eyeing Market for Voice Mail Services," Computerworld, March 24, 1986, p. 23 (A21708350) (Supplemental VII)	March 24, 1986	Story on local phone companies and voice mail.

Title of Article/Publication	Date	Comment
Watt, Peggy, "Republicans Ready for	August 27,	Story on phone system for Republican
High-Tech: GOP Convention will Feature	1984	convention with voice mail, etc.
Voice Message System," InfoWorld,	1	,
August 27, 1984 (A21708862)		
(Supplemental VII)		
Weinstein, Bob, "Stock Exchange Gets	October 1988	"Inbound/Outbound" article on
News by Phase "Inhound/Outhound	October 1900	computerized stock reporting.
News by Phone," Inbound/Outbound,		Computerized stock reporting.
October 1988, pp. 39-46 (A21725744)		
(Supplemental VII)	A 1	"Inbound/Outbound" article on stock info.
Weinstein, Bob, "Stopping the Broker's	November	Inpound/Outbound afficie on stock into.
Bottleneck," Inbound/Outbound,	1988	
November 1988, pp. 22-23 (A21725753)	·	
(Supplemental VII)		
"West Interactive Settles with FDR:	November	News piece on West-FDR settlement.
Patent Suit Settlement Could Have major	1994	
Industry Impact," Enterprise		
Communications, November 1994		,
(A01331040)		
(Supplemental VII)		,
Whalen, Bernie, "Marketers Expand	November 26,	News piece on "Dial-it" technology as for
Applications of Dial-It 900 Technology,"	1982	various promotions.
Marketing News, November 26, 1982		i i
+(A21725861)		
(A21723001)		
#"What's An 'Automated' Attendant,"	July 1989	Article on call directors.
Inbound/Outbound, July 1989, pp. 40-42	July 1505	7 thore on oan anottere.
		,
(A21724789)		
(Supplemental VII)	December 7,	News article anticipates programming
"Whether to Answer the Phone," The	1986	terminals for call selectivity, ANI and coded
Washington Post, December 7, 1986	1900	1
[_(A21707563)		rings.
(Supplemental VII)		A tiple on ATOT's continue management
Whitten, W. B., "Advanced Interfaces	unknown	Article on AT&T's service management
Speed Delivery of Services," AT&T	1	system ass for call sorting, routing, etc.
Technologies, Volume 2, Number 3	•	
(A21707593)		
(Supplemental VII)		
"Who Switches Data Along with Voice?	February 1987	Story on PBXs that integrate voice and
PBX Users, Increasingly," Data		data.
Communications, February 1987, p. 77		
(A21707751)	,	
(Supplemental VII)		
Wilpon, Jay G., et al., "Speech	October 1990	"AT&T Tech. Journal" article on speech
Recognition: From the Laboratory to the	, ,	recognition.
Real World," AT&T Technical Journal,		`
September-October 1990, pp. 14-24		
(A21723481)		
(Supplemental VII)		
Wise, Deborah C. "This Computer Even	September 23,	News piece on AT&T exercise using
Deciphers Noo Yawk Talk," Business	1985	telephone interface to gather voice data as
Week, September 23, 1985, pp. 40-42		related to voice recognition, mentions
(A01354687)		Conversant and Fidelity
(AU1304001)		Convolutional Flacing

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(Supplemental VII)		
Witten, Ian H., "Making Computers Talk:	1986	Book "Making Computers Talk" section on
An Introduction to Speech Synthesis,"		speech recognition
Prentice-Hall, 1986 (A21708148)		
(Supplemental VII)		
Wolfe, R. M., et al., "Telecommunications	May 1984	AT&T paper on stored program switches re
Data Base Application with the 3B™20	•	800 ćalls, etc.
Processor," ISS '84 Florence, May 1984,	•	
Session 22 A, Paper 2 (A21725518)		
(Supplemental VII)		
Wollenberg, Skip, "American Express	January 19,	Story on FDR and Katz re: interactive
Affiliate Plans Interactive Phone Service,"	1989	service.
The Associated Press, January 19, 1989		
(A01331396)		
(Supplemental VII)		
Wong, Stephanie Lam, "Just a Phone	Unknown	News piece on Frito Lay promotion.
Call Away," San Francisco Chronicle,	,	The second state of the se
Date Unknown (A21707649)	•	
#=(Supplemental VII)		
Wood, Lamont, "Stretching the Workday;	December 2,	Story on voice mail and users.
Corporate Users Find that Voice Mail	1986	Otory on voice man and decree
Saves them Time in Transmitting	1300	
Important Messages," Computer		
Decisions, Volume 18, December 2,		
#=1986, p. 44 (A21707561)		
(Supplemental VII) Wood, Lamont, "Will New Alliances	July 29, 1986	Story: computer manufacturers acquire
Forge Better Links? Private Branch	00, 20, 1000	PBX vendors.
Exchange Vendors Merge with Computer	1.	T BX Volidoro.
Firms," Computer Decisions, Volume 18,		
July 29, 1986, p. 40 (A21706353)		
(Supplemental VII)		
Worrall, D. P., "New Custom Calling	May-June 1982	From the "Bell South Journal" AT&T paper
	May duric 1002	on custom calling services, e.g. call
Services," The Bell System Technical Journal, Volume 61, Number 5, May-		waiting, call forwarding, conferencing,
June 1982 pp. 821-839 (A21725897)		message taking, answering, and remote
	,	access
(Supplemental VII) "Worthwhile Trivia," The New York	Unknown	News piece on baseball trivia
	OTIKHOWIT	News piece on bacoban arvia
Times, Date Unknown (A21706711)		
(Supplemental VII)	Unknown	Ad for send a song
"Yes! Songs For You," Advertisement,	Olikilowii	Au for seria a sorig
Source Unknown (W73764)		
(Supplemental VII)	luna 1002	Helsinki symposium on human factors in
Youngs, E. A., "The Changing Role of	June 1983	telecom – trends and projects.
Human Factors Work Supporting New	,	telecom – trenus and projects.
Telecommunications Products and		
Service," Proceedings of the Tenth		
International Symposium on Human		[.
Factors in Telecommunications, June		
1983 (A21725809)		
(Supplemental VII)	Contomber	Paper on the effects of automated services
Youngs, E. A., "Effects of Automating	September	Taper on the effects of automated services

Title of Article/Publication	Date	Comment
Operator Services on Customers and	1977	and the future.
Operators," Proceedings of the Eighth		'
International Symposium on Human		
Factors in Telecommunications,"		
September 1977, pp. 251-255		,
(A21725776)		, v
(Supplemental VII)		
"Zenith; Centel Plans Zenith Phonevision	December 5,	Story on Zenith pay-per-view
Pay-Per-View Cable TV System,"	1985	•
Business Wire, December 5, 1985		
(A21708105)	*	
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Zeno, Charlie, "Trivia Buff's Special Party	unknown	News piece on baseball trivia
for 678 Kids," Contra Costa Times, Date		,
Unknown (A21706788)		
(Supplemental VII)		
Zuckerman, Steve, "Ogilvy &	September 8,	News piece on Ogilvy and Mather ad
Mather/Dallas Looks for Partner to Go	1986	agency
After Bigger Accounts," Dallas Business		
Courier, Volume 2, Number 21, Section		
1, September 8, 1986, p. 12		
(A21706454)		
[‡] (Supplemental VII)	•	

From the documents listed above, the following examples are isolated and briefly discussed

to indicate the extent of interest that they may have to Applicant's claims. For the Examiner's

convenience, copies of these documents were provided previously (for U.S. Serial No. 306,456).

DOCUMENTS:

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1. "AT&T's Flagship System 75: A Comprehensive Analysis of the System 85's 'Little Cousin,'" Telecommunications Product Review, Volume 11, Number 7, July 1984 (A21724612) (Supplemental VII)

The article reveals features of AT&T's "most technically sophisticated" switch for terminal support. The switch has: stored program control, "voice" capability, digital switching, queuing control, etc. However, the switch falls for short suggesting the interface functions and capabilities as claimed by the Katz patents.

2. AT&T Technical Journal – The 5ESS Switching System, Volume 64, Number 6, Part 2, July-August 1985 (A21723626) (Supplemental VII)

The AT&T Technical Journal for July-August (see Contents pp. 1303 – herewith) was dedicated to the 5ESS Switching System, and consisted of several papers on the unit. Most of the

papers are directed to the switch per se and accordingly are of no interest here. However, some of the papers could be of some interest and copies are provided. Operational Software (pp. 1357-1384) Data base management is explained (pp. 1364) along with administrative services (pp. 1375). Accordingly, capabilities to collect and process data are revealed, the paper does not suggest specific functions or capabilities as would be pertinent to the Katz claims. Hardware Design (pp. 1417-1437) The paper explains messaging capability and subscriber interface, however, again there are no suggestions beyond broad statements of capability in relation to telephonic interface systems.

3. Greene, James E., et al., "Voice Response System Sticks to the Script and Saves Time, Money and Tempers for University Students and Administrators," Communication Age, January 1986 (A21724080) (Supplemental VII)

The article describes a 1985 telephonic course at the Georgia State University. Although the Operation was historically of interest to computer telephone interface operations, it was only one step beyond information retrieval. However, information was received, acknowledged, and stored.

"-4". "'Teleguide' Network Gives Tourists the Answers," ComputerData, April 1983 (A21724569)

Article describing an information retrieval system implemented in Canada in the early eighties. Using CRT terminals to receive tourist information. Although the system is interactive, it is distinct as performing merely information retrieval functions.

U.S. PATENTS:

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U.S. Patent No. 4,799,255 to Billinger et al (Supplemental VA) (filed January 30, 1987, issued January 17, 1989)

As used, ANI is not a consumable key for accessing, but rather an identification to count "bad" attempts to access from a telephone requiring an access code. The system fits the category of tallying "bad tries" to a limit, then restricting the path. The calling number (ANI) as tallied, is not to control access in the manner of consumable key, but rather is used merely to identify the source of calls failing to identify a valid authorization code (C 3, L 38) when such a code is needed for access (C 7, L 42).

6. U.S. Patent No. 5,148,474 to Haralambopoulos et al. (Supplemental VA) (filed August 21, 1991, issued September 15, 1992)

The reference discloses a system for telephonically serving callers with information displayed from a memory to an operator, as a medical technician at a facility where the caller is a patient (C 4, L 39). Essentially, the system interfaces the patient preliminarily to gain identification to fetch and display data for the technician. Alternately, the call is terminated or given to a receptionist (C 4, L 38). In view of the priority data and the substance of applicant's claims, the disclosure is of no pertinence.

FOREIGN PATENTS:

7. PN: 217,308, GD: 12/12/1990, EPA (Specification) (Supplemental VI)

Sept. 30, 1985 (U.S. 781895) The EPO specification discloses a pay-per-view system using telephonic interface, however, which is distinct by reason of not using a network connection to a vendor of the service (see Col. 10, lines 15-23).

8. EP 0 382 670 B1 (Supplemental VA) (published August 16, 1990)

Although the system discloses a state machine, the states (see C 5, L 30) and their functions are quite distinct from applicant's claimed systems involving status registers to control audio recording.

CHART C (SUPPLEMENTAL VIII)

Title of Auticle/Dublication	Data	Commont
Title of Article/Publication	Date	Comment
Complete Issue of Bell Labs News, Volume 25, Number 36, September 30, 1985 (A21724662) (Supplemental VIII)	September 30, 1985	Article on speech processing in Conversant Systems and other unrelated articles
-		
Complete Issue of Bell Labs News, Volume 26, Number 31, August 18, 1986 (A21706398) (Supplemental VIII)	August 18, 1986	Article describes how Dial-a-View tests ANI, but no accessing, voice cues, PIN, etc.
Complete Issue of Bell Labs News, Volume 27, Number 33, August 17, 1989 (A21710741) (Supplemental VIII)	August 17, 1989	Article describes calls by credit card in which the caller dials in the card number
Bell of Pennsylvania Press Release, March 13, 1984 (A21725876) (Supplemental VIII)	March 13, 1984	News release on caller selection by customer to obtain incoming call control and as call rejection, distinctive ringing, caller i.d., etc.
Dorros, Irwin et al., "Reaching into the Future with Stored Program Control," Bell Laboratories Record, December 1980, pp. 387-393 (A21710507) (Supplemental VIII)	December 1980	AT&T article on stored program controlled network as for messages, credit verification, automatic and routing
Complete Issue of Voice News, Volume 4, Number 9, October 1984 (A21708913) (Supplemental VIII)	October 1984	Voice mail newsletter mentions new voice related developments and products, customers and courses
Complete Issue of Voice News, Volume 6, Number 7, July/August 1986 (A21706303) (Supplemental VIII)	July/August 1986	Voice mail newsletter mentions new voice related developments and products, applications, customers, courses and markets

Title of Article/Publication	Date	Comment
Complete Issue of Voice News, Volume 7, Number 2, February 1987 (A21707730) (Supplemental VIII)	February 1987	Voice mail newsletter on speech recognition and vocabulary plus a piece on AT&T board for answering machine use and an AT&T speech card, plus other voice related equipment and business notes
Complete Issue of Voice News, Volume 7, Number 3, March 1987 (A21707834) (Supplemental VIII)	March 1987	Voice mail newsletter mentions developments and products related to voice mail operations, along with business considerations
Complete Issue of Voice News, Volume 7, Number 5, May 1987 (A21714110) (Supplemental VIII)	May 1987	Voice mail newsletter regarding voice mail and speech related developments and products, applications and business related news
Complete Issue of Voice News, Volume 7, Number 10, October 1987 [A21724749] [Supplemental VIII]	October 1,987	Voice mail newsletter relating to Dytel patent, call answer and cue, number translation, routing and greetings. Also, letter mentions new voice mail related products and developments, business and legal news

4. <u>CONCLUSION</u>

The items identified in this Information Disclosure Statement may or may not be "material" pursuant to 37 CFR § 1.56. The submission of these documents by Applicant should not be "construed as an admission that any such patent, publication or other information referred to in these documents is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention, unless specifically designated by Applicant as such.

The filing of this Information Disclosure Statement should not be construed to mean that a search has been made or that no other material information, as defined in 37 CFR § 1.56, exists.

This Information Disclosure Statement is being filed in accordance with 37 CFR §§ 1.97(c) and 1.98. This IDS is being filed after an action on the merits but before a Final Action under § 1.113 or a Notice of Allowance under § 1.311. A check in the amount of \$180.00 to cover the fee

pursuant 37 C.F.R. 1.17(p) is enclosed. The Examiner is hereby authorized to charge any deficiencies or any additional fee required by this paper to A2D, L.P.'s Deposit Account No. 50-1636.

Respectfully submitted,

By:

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